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The W.W. Barnard Co.

SEEDSMEN CHICAGO, ILLINOIS.

Barnard's SPRING CATALOGUE 1926

ORDER EARLY.—It is our endeavor to fill all orders as soon as received, but during the rush season, March, April and May, delays are frequently unavoidable. Your assistance in anticipating your spring requirements and ordering your seeds, plants, shrubs, bulbs, tools, etc., for early shipment will be greatly appreciated. No Nursery Stock sent C. O. D.

FORWARDING .- We mail postpaid to any Post Office in the United States, vegetable and flower seeds when ordered in packets, ounces or quarter pounds, except where otherwise noted in the catalog. Agricultural seeds, implements, fertilizers, insecticides and other heavy and bulky goods are sent by express or freight at the purchaser's expense. All shrubs, bulbs, roots and plants are forwarded by express at the purchaser's expense. Parcel post is not desirable for these articles. We will forward by parcel post where specifically requested to do so, with the understanding that it is entirely at your risk and charges must be prepaid. When ordering Beans, Corn or Peas to be forwarded by mail. consult the table below, and add postage accordingly.

FREE LOCAL DELIVERY.—Our Free Delivery Service covers Chicago and nearby Suburban Districts when purchase amounts to Three Dollars or more. We reserve the option to forward by American Railway Express prepaid or Parcel Post, in lieu of our own delivery.

PACKING.—No charge is made for boxes or packing for Parcel Post, express or freight shipment, except on Nursery Stock. We guarantee the safe arrival of express packages to points in the United States, and also Parcel Post packages of seeds up to and including quarter pound lots. If a package sent by express or mail is injured or lost we will replace it as soon as informed of the fact, accompanied by "damage or loss" receipt signed by Express Agent or Postmaster.

REMITTANCES.—It is preferred that remittances be made by Post Office Money Order, Express Money Order or Draft on Chicago. We can use postage stamps covering small amounts but suggest that where these are sent, the letter be registered as we cannot assume responsibility where remittances are made in non-registered letters or other than above mentioned methods. Currency should not be sent by mail.

CASH WITH ORDER.-Please send money with order sufficient to cover the whole bill together

with Parcel Post charges, if desired that way.

NAME AND ADDRESS.-Please remember to write on each order, your NAME, POST OFFICE. COUNTY AND STATE; also give number of street or P. O. Box, as distinctly as possible; also the NEAREST EXPRESS OFFICE, or, if on a stage route, send us special directions.

CATALOGS.—We issue two catalogs annually. Descriptive catalog in February and bulb catalog in September. Customers having more than one address will oblige by stating to which address

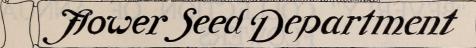
catalog is to be mailed, also advice of change of address would be appreciated.

PARCEL POST RATES .- All parcels of Seeds, Plants, or Bulbs, eight ounces or less, are carried within the United States regardless of zone rates at one cent for 2 ounces; over eight ounces at the Zone Rates. All merchandise other than seeds, bulbs, and plants up to and including 8 ounces in weight can be sent at the rate of 11/2c for each two ounces, regardless of distance. Over 8 ounces at the Zone Rates. Frequently shipments of fifteen pounds and over go more safely by express than by Parcel Post and unless advised to the contrary, all parcels over 15 pounds, we will ship by express.

DOMESTIC PARCEL POST ZONE RATES on Seeds. Plants, Bulbs, Roots, Books, Tools, etc., within the U. S. and Possessions.	First pound including 2c service charge	Additional pounds
Local (Chicago)	7c	1c for 2 lb.
1st and 2nd (within 150 miles)		1c for 1 lb.
3rd (within 150 to 300 miles)	8c	2c for 1 lb.
4th (within 300 to 600 miles)	9c	4c for 1 lb.
5th (within 600 to 1000 miles)	10c	6c for 1 lb.
6th (within 1000 to 1400 miles)	11c	8c for 1 lb.
7th (within 1400 to 1800 miles)	13c	10c for 1 lb.
8th (all over 1800 miles)	14c	12c for 1 lb.

Note:-Limit of weight for delivery within the first, second and third zones, 70 lbs.; to all other zones, 50 lbs.; to Canada, 4 lbs., 6 ozs. (postage 60c). If weight exceeds this we will pack in 2 or 3 parcels, provided sufficient money is remitted to cover postage on goods and weight of packing. A fraction of a pound is considered a full

NON-WARRANTY .- Most of the failures with seeds, bulbs or plants are due to causes entirely beyond our control, such as unfavorable weather or soil conditions, too deep or too shallow planting, too much or too little water, etc., which renders it impossible for us to guarantee success, and although we take all possible care to supply only such goods as will, under proper conditions, produce satisfactory results, The W. W. Barnard Company gives no warranty express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants it sells, and will not be responsible for the crop. Every order for articles named in this catalog will be executed on these conditions only.



FLOWER SPECIALTIES SECTION

Page 2. "Beverly" Collection of seeds of the annual flowers illustrated on our back cover. Perennial Flower Seeds, for new

Page 3. Delphinium Seeds, from the new English hybridizations, and Pudor's "Glory of Puget Sound".

Page 4. Annual Flower Seeds, of particular interest.

Page 5. Summer Flowering Bulbs, in new forms and colors. Roses, of new superiority. Hardy Ferns, for decorating shady

Page 6. "With Spring So Near" Suggesting late winter activities for the impatient gardener.

Page 7. Pussy Willows, to grow for earliest Spring's adornment. Clematis, of the large flowering sorts, already started into growth in pots.

Pages 8 and 9. Gladioli Specialties, from Kunderd.

Page 10. "A Summary of Flower List and Cultural Directions."

Page 11. A Classification of Flowering Plants.

THE

W.W. BARNARD CO.,

231-235 WEST MADISON STREET. CHICAGO.

1926 "BEVERLY" COLLECTION OF ANNUAL FLOWERS

The colored reproduction on the back cover page pictures the wide range of color and form represented in this choice collection. All are of standard varieties and the profuseness of bloom to be obtained from this small investment will undoubtedly be fully satisfying.

Double Cosmos, mixed colors, flowering freely seventy days after	
planting and until frost Pkt.,	\$0.25
Nasturtium, Bright colors, vigorous growth	.10
Pink Dahlia Flowered Zinnia, Largest of all Zinnias, with a long sea-	
son of bloomPkt.,	.25
Blue Pansy, Universally admired, a lovely blue	.15
Gaillardia, Striking blossoms of yellow and brownPkt.,	.10
Giants of California Petunia, Large flowers with a variety of veining	
and markings in many colors Pkt.,	.20
Red Spencer Sweet Pea, Crinkled and wavy petals, a gorgeous redPkt.,	.10
Larkspur, Tall and stately, a popular bluePkt.,	.10
MANAGEMENT HOLLONG	04.07

\$1.25

SPECIAL INTRODUCTORY OFFER

1 packet of each of the above flower seeds, 8 packets in all, Postpaid for \$1.00

PERENNIAL FLOWER SEEDS

For New Effects

Geum, Orange Queen

Bright orange flowers large and prolific in bloom, similar in size and shape to those of Geum Mrs. Bradshaw. The two varieties complement each other, furnish a wealth of color and are choice for cutting.

Pkt., 50c

Allwoodi Pink

A new and valuable addition to the hardy pinks. Blooms the first year from seed. The bowers are nearly all double and have a wide range of color. Including these pinks in any bouquet brings to it a delightful spicy odor and the memory of many an old-fashioned garden.

Pkt., 50c

Pyrethrum Hybridum

These lovely daisy-like flowers with colors ranging from dark crimson to light pink and white, come to the height of their beauty in June, but if cut back may be kept blooming for at least two months. They are about two feet tall and merit the name "Spring Chrysanthemum." Their culture is easy and they grow well even in partial shade. Their lasting qualities, their beauty of form, variety of color and length of stem make them invaluable for cutting. Sow the seed or divide the plants in the early spring.

Pyrethrum Hybridum (Perennial) Extra Double Market Strain. Pkt., 50c



DELPHINIUM

The Delphinium has long since established itself as a necessity in every garden—one of the old-fashioned flowers that increase in popularity each year. To add depth to the garden, to furnish a high background, to give the desired splash of color to the border, to supply a sense of coolness to the garden, plant Delphinium. If one wishes to have an entire bed of Delphiniums, there will be variety, yet never a jarring note. In combination with Madonna Lillies, Hollyhocks, or Thalictrum Glaucum, they will be equally effective.

Seed planted in a hot-bed or a sunny window early in March will blossom the same year, but the usual time for sowing is early in August, so that the plant may be well established for the winter and will blossom freely the next year, first in June and again in September, if the plant is cut to the ground when the first blossoms fade, and is given a dressing of bone meal and an abundance of water. A fertilizer of soot from the chimney or of wood ashes will also be beneficial, or the plant may be dusted with equal parts of dry lime and sulphur every two weeks. The taller varieties should be staked early. If blight appears, dig dry Bordeaux Mixture about the crowns. When there is the slightest trace of blight, use bone meal as fertilizer, and no manure. These fertilizers and insecticides are listed on pages 108 to 111 inclusive.

No flower of the garden repays culture more than the Delphinium and, as in the case of all hybrids, a certain amount of care is indispensable. Further suggestions in regard to the culture of Delphinium may be found on pages 22, 28, and 91.

Assorted Delphinium Seed— English Strain

This seed was selected by our representative in Holland last summer and we are very fortunate in being able to offer to our customers seed from such new and hardy plants. They are the product of the latest hybridization developments in Europe and are from the best strains of new varieties named by the London Horticultural Society. The finest of delicate shades and colors are in this assortment. The stalks of some of the plants are five feet tall and are filled with the finest specimens of flowers. They are worth-while Delphinium and are sure to give you satisfaction.

Pkt., 50c

Delphinium Pudor's "Glory of Puget Sound"

A strain evolved with the greatest care and devotion in the Puget Sound country. The tall spires have a real architectural value and add a stateliness and dignity to any garden plan. The brilliant clear blue of the outer petals forms a charming setting for the contrasting mauve of the center. The flowers themselves are often two inches in diameter. This genuine aristocrat brings a real distinction with it. Once seen, all lovers of "true blue", so compelling in combination with delicate pinks and dainty whites, will agree that no collection of Delphinium is complete without this superb flower. Seed planted in the early spring will blossom in the fall, less vigorously, of course, than in succeeding years. Pkt., 50c

NOVELTIES AND SPECIALTIES FOR 1926

ANNUAL FLOWER SEEDS

Calendula, The Ball

A new variety with large orange flowers, very double. No flower is more dependable for cut-ting than this free bloming, enduring Calendula. with its long strong stems and gorgeous color. A cheerful flower-a bit of condensed sunshine. Sow in open ground as soon as soil can be tively large double and long stemmed. Pkt., 25c

Petunia

Double Hybrida Grandiflora Fringed Violet

A new dark variety with texture of velvet. You will be glad to add this lovely flower to the petunia bed. It will form a delightful combination with Rosy Morn Petunias. Only a small percentage of the seed gives double-flowering plants, as they are produced by hybridization. The smallest seedlings are most likely to produce the finest double blossoms and should be thinned out accordingly. The others will produce large single blossoms.

Seed should be sown in the sunny window or in the hotbed early in March, or in the open soil in May and the plants should stand about 9 inches apart. Petunias prefer full light, but are exceptionally adaptable. The hybridized strains are more costly and require more care, but arePkt., 75c well worth it

Poppies

So reliable are Poppies in the garden that they have been likened to old friends and good, not mere callers or guests who disappoint us-friends who come to us with dignity and grace wearing silken petticoats.

The seed is so fine that it is best to mix it with sand and sow just after a rain hardly covering it but pressing it down firmly. The plants should be thinned to stand 3 or 4 inches apart, for the best results. They are hardy and may be grown in any soil but cannot well be trans-planted. They can be successfully used in beds by themselves or in borders.

Poppies may be used to advantage for home decoration if cut properly, just before the green calyx is shed, and will last for several days.

Poppy, Barr's Double Queen, Ranunculus-flowered, in wide range of colors Pkt., 10c Poppy, Double Peony Flowered, shrimp pink, blossoms very double, plants of a tall stately habit.

Salvia Splendens Harbinger

This flower owes its universal popularity to the brilliancy of its coloring and to the length of its bloom. If the seed is sown indoors in February and transplanted later, an abundance of bloom is assured from June until frost. The

A new and dainty Spencer, a delicate cream pink with the faintest trace of salmon. A flower of perfect form with standards and wings decidedly waved. The long stout stems with their gracefully placed flowers destine this variety to be a favorite for table decoration and for the corsage. It will be enthusiastically welcomed by lovers of sweet peas.Pkt., 25c

Verbenas

For generations the Verbena has been a favorite and almost an essential in the garden. Easy of culture, rich in color, useful for ground covering and for masses in the border, satisfactory for cutting, its reputation is well earned. For blooming as early as June the seed should be planted in March in the hotbed or sunny window. If planted outdoors when danger of frost is past, the blooms will come in July or August and continue until frost, if well watered. The plants should be set 12 to 18 inches apart, and are made sturdy by pinching back early in their growth. They will self-sow if desired, thinning or transplanting being required when the plants have become established.

Verbena, New Gigantea Type.

Rosea Stellata, rose-pink, white eye ... Pkt., 25c Violacea Stellata, deep violet, white eye. Pkt., 25c of salmon Pkt., 35c

The Dahlia-Flowered Zinnias



These strains are indeed dahlia-like in form and have been much improved in recent years through painstaking selection. They attain a height of 3 feet and produce truly mammoth flowers, about 6 inches across.

Crimson Monarch-The largest and best of the truly red shades. The individual flowers are often 8 inches in diameter. The plants are vigorous, and altogether it is a fine contribution to

scribed by its name. It is artistically tinted, the center petals becoming deeper rose in shade. Beautiful in combination with Polar Bear.

... Pkt., 25c Golden State-A flower that even California with its wealth of bloom may welcome with pride. The bud is of a clear yellow, but as the flower opens a deep orange appears, making a bed of this variety a "symphony of gold". Pkt., 25c Polar Bear—A pure white, the result of years of

hybridization. Deserving of a place in every garden. Pkt., 25c

Purple Prince-A fine deep purple, large and well Two Roses of New Superiority

Souvenir de Claudius Pernet. Of the most striking sunflower-yellow which is retained indoors and out, even in the warmest weather, this new Hybrid Tea Rose ranks as one of the greatest achievements of the great French hybridizer, M. Pernet-

The blooms are very large and full, the buds long and

pointed and the foliage of the most brilliant green. The plants are of branching habit and of vigorous growth. Without doubt it is the best yellow rose that has been produced in Europe, and upon its introduction into America has sprung into immediate popularity. No other rose has attracted the attention at the shows that has marked the advent of this hybrid-tea specimen. It seems to be the long-looked-for desirable yellow garden rose.

Strong, 2-year old dormant plants, Each, \$1.75 ensation. "All that the name implies". Even the most lukewarm rose fan becomes enthusiastic over the rare beauty of this new Hybrid Tea Kose. The color is of glowing scarlet-crimson, very lasting in quality. The long pointed buds, the charming, large, very double blooms, the long, strong stems, and the luxuriant foliage make this rose indeed "a thing of beauty and a joy forever!" Turns a splendid blackish-red in the autumn. Sensation.

autumn. Strong, 2-year old dormant plants,

Each. \$1.50

Hardy Ferns FOR SHADY NOOKS

Ferns are useful in giving character to shady portions of the garden where little else will grow. By getting a liberal amount of leaf mould and wild flowers that are often found near ferns, one may create a genuinely "woodsy" effect. These graceful plants are not difficult of culture and may be transplanted with little risk if shaded for a few days and watered generously.

Cinnamon Fern (Osmunda Cinnamomea). 2 to 3 feet in height. One of

the most beautiful of the hardy ferns. Ostrich Plume Fern. A rapid growing variety whose fronds sometimes measure four feet in length.

Royal Fern (Osmunda Regalis). Flowering fern with pale green fronds, very inter-Each, 30c; per dozen, \$3.00; per 100, \$20.00

Summer-Flowering Bulbs

Montbretias

One of the brightest of our summer-flowering bulbs. The long slender green foliage and numerous graceful spikes of dainty flowers in a brilliant range of color make them a particularly desirable cut flower.

The bulbs may be set out during April and May, and should be protected during the winters with a heavy covering of leaves or litter.

Fire King. Brilliant scarlet, large bell-shaped flowers.

Improved Aurantica. A large new orange-yellow, extra tall grower.

King Edmund. Large, golden yellow flower, with a red marking in the center. A very strong, tall-grower.

Messidor. Cream white.

Westwick. Velvety red with yellow center, large flower, branching habit.

Strong bulbs, each, 15c; per dozen, \$1.50.



Canna, Austria



Montbretia

Cannas

The canna, with its tropical foliage and brilliant showy flowers, is most effective when planted in masses of one variety. In group planting, care should be taken that the taller-growing varieties are placed back of the shorter

the taller-growing varieties are placed back of the shorter growing ones.

They bloom from early summer until frost, like a sunny location, and are easy of culture. They respond quickly, however, to liberal treatment.

The Ambassador. A wonderfully vigorous variety, with healthy bronze foliage and brilliant red flowers borne in immense trusses on strong stalks.

3 ½ -4 ft.

Each, 35c; dozen, \$3.50

Austria. Canary yellow with crimson spots on center petals. Green foliage. 4½ ft.

Queen Charlotte. Rich red, with yellow border. Green foliage. 3½ ft. Each, 15c; doz., \$1.50

Richard Wallace. One of the largest and best of the pure yellows. The flowers are enormous and of fine color, foliage green. 4-ft.

Each, 15c; dozen, \$3.50

Each, 35c; dozen, \$3.50

Each, 15c; doz., \$1.50

With <u>Spring</u> so Near



What a joy to plan the Garden! One need not wait for sunshine and warmth outside. The right time is Now. With Catalogue, pencil and paper make a list of Flowers and Vegetables that will bring you pleasure for many months, and send for them without delay. For all early things, both in Flowers and Vegetables, a hot-bed, although it is desirable for many, is not absolutely indispensable. A sunny window ledge may be used with excellent results.

The soil must be finely pulverized and the seed should not be sown too deep, and firm the soil well after sowing.

Keep the temperature not over 70 degrees. It is better to keep it less.

The matter of watering is a most important one. The safest method is to place a cloth lightly over the soil and keep it moist (not wet) until the seeds are up. Of course it will be necessary to sow seeds in the same box which germinate about the same time for the cloth should be removed as soon as the little plants appear. A small hand spray is the very best thing that can be used after this to keep the soil just moist without allowing it to become too wet.

Don't forget to soak hard-shelled seeds according to the directions given.

Fresh air is another thing the seedlings must have. Every warm, sunny day open the window a little while and let them get a breath of the fresh out-of-doors. As soon as the weather will permit begin the real work of "Hardening-off". Find a corner where the boxes of seedlings will be protected from wind. If possible let it also be a sunny spot. At first give them only a few hours each day. Later on, they may be left from morning until late afternoon.

When the third or fourth set of real leaves has appeared, the young plants may be transplanted. If weather conditions have been such that the garden is ready to receive them, transplant at once to their places; otherwise set them in larger boxes of carefully prepared earth. The distance apart will be determined by the size of the plant, from one to one and a half inches.

When transplanting to the Garden let it be done on a cloudy day or towards evening. Protect the plants from the direct rays of the sun for a few days until they are well settled in their places.

Early March is the time to prune grapes and shrubs. A pair of Pruning Shears are a great help in this work. The California type with flat brass springs are best. The following is a list of shrubs which should be pruned in Spring.

Althea Clematis Clethra Honeysuckle Hydrangea Roses (not the Climbers) Spirea (except Thunbergia and Van Houttei)

From "The Garden Bluebook," by Holland, that choice manual for Garden-lovers, we glean the following: "Many books have been written on color, but few, if any, on foliage in the flower garden, and to my mind that is almost half the battle.

Fill the herbaceous border to a third or almost a half of its area with shrubs—Spirea, Deutzia, Bush Honey-suckle, Azalea, Kerria, etc., or even Barberry or Privet—and with perennials that hold fine solid clumps of foliage throughout the year, such as Peonies or Dictamnus; and if these be arranged to give a pleasing silhouette and to group well in their 'wild regularity', you may fill the other space with Petunias and Scarlet Sage, or what you will, still you will find it very hard to spoil the picture. And on the other hand, the choicest flower composition that you can devise will profit all the more by the space and background of green that you give to it.

Color and texture of foliage is of secondary importance, and all these factors are practically constant throughout the year, while blossoming may almost be ignored; whereas in the floral half of our composition we have constantly to consider factors of color and height, which change with every week from early Spring to Fall. A spot that is magnificent in July may be a desert in August unless the garden is wisely planned. In this I am assuming, of course, that our garden is one of perennials or at least is chiefly such, annuals being used only here and there to fill in gaps."

PUSSY WILLOWS (SALIX CAPREA)

Nothing carries with it the sense of spring more forcibly than does the Pussy Willow. It is a delightful experience to have these willows in your own garden and be able to bring to your living-room intimations of spring long before your garden itself gives evidence of it. Cut the branches as soon as the sap begins to flow. place in water in the house and watch the lovely downy buds develop. A few sprays with your spring bouquet, or stuck in a potted plant give just the right touch. The bushes, too with their soft green leaves are an attractive adjunct to your garden. We offer well rooted plants of an improved variety. If planted in the spring from twenty to thirty branches can be cut the second year.

3 year old, 3 to 4 foot bushes, each, 75 cents.

LARGE FLOWERING CLEMATIS

Climbing plants have reached their zenith of attractiveness in the different varieties of the Large-flowering Clematis. The requirements of these plants must be met with considerable care if good results are to be obtained, but the rewards of providing proper conditions in the large showy flowers and the graceful vines are most gratifying. Rich deep soil, good drainage, abundance of water, and deep planting (the crowns at least three inches beneath the surface of the soil) are necessary. They die to the ground each autumn, but make a heavy growth in the spring and in July the flowers, from two to four inches across, burst forth in luxuriant profusion.

This season, in addition to the dormant roots listed on page 101, we will have potted plants of the most popular varieties of Large-Flowering Clematis. Early potting brings them into active growth, so that they may be satisfactorily transplanted out-of-doors when ready, about the middle of April, when danger of frost is past.

Care should be taken in transplanting, or the stem is likely to be broken below the eye shoots. To guard against this, place a few stakes around the plant to protect it after planting. For winter protection, a covering of straw or leaves around the roots is suggested.

The varieties offered here are strong plants from 4 inch pots.

Jackmanni, rich purple. A rapid climber and very popular.

Each, \$1.25

Henryi, creamy-white, a profuse bloomer, the best of the large flowering whites.

Each, \$1.25

Mme. Baron Veillard, rosy-lilac, a rare but beautiful variety.

Each, \$1.25

Ramona, clear sky-blue, contrasting strikingly with the clusters of pure white stamens. A magnificent variety. Each, \$1.25



Pussy Willow

GLADIOLI

New Types - New Classes - New Colors

This season, in addition to the standard varieties of Gladioli, listed on pages 86 and 87, we are offering a selected list of specialties grown by Mr. A. E. Kunderd, one of the foremost gladioli hybridizers in America.

General instructions for the planting and care of gladioli are given on page eighty-seven (87).

Ruffled Gladioli

(Kunderdii)

This is a distinct type of gladioli, created by Mr. Kunderd, easily recognized by their ruffled petals. The varieties listed below are all choice sorts, selected for their wide range of color

Avalon (1916)—An extra choice blush white. Very beautiful throat. Magnificent, grand. Each, 20c. Doz. \$2.00. 100, \$15.00.

Buckeye (1921)—Very large massive bloom of fine rose-pink color with tint of old rose at edge of petals. A beautiful, large rose-red throat. Very good. Each, 30c. Doz., \$3.00. 100, \$22.50.

Dr. W. Van Fleet (1922)—Extra tall and slender plant, flowers of remarkable form and large size. A magnificent shade of delicate rose-pink, deeper at edges of all petals. Throat of softest canary-yellow or cream tint beautifully blended. Each, 35c. Doz., \$3.50. 100, \$26.25.

Dream (1918)—Large, massive bloom. Deep salmon-red. Large, very showy blotches. Extra grand. Each 25c. Doz., \$2.50 100, \$18.75.

Favorite (1921)—Beautiful orange salmon, deeper in throat. Tall, strong, vigorous plant with many large, finely ruffled flowers open at a time. Very fine. Each, 30c. Doz., \$3.00. 100, \$22.50.

Golden Glory (1916)—A large, richly colored yellow, with beautiful throat. A fine ruffled yellow. Each, 25c. Doz., \$2.50. 100, \$18.75.

Purple Glory (1916)—The giant of the Kunderdii Glory race, and of remarkable color. Deepest velvety maroon red, with almost black blotches, like burned into petals. Beautifully ruffled. Extraordinary. Each, 35c. Doz., \$3.50.

Rose Glory (1916)—A very large and beautiful ruffled variety. Purest rose-pink color. Deeper in throat. Extra fine. Each, 25c. Doz., \$2.50. 100, \$18.75.

Ruffled Beauty (1922)—Deep American Beauty violet. Very large flowers on medium height plant. Strongly ruffled and a very showy variety. Each, 50c. Doz., \$5.00.

Ruth Huntington (1923)—Beautiful violet lilac with deeper lilac markings on lower petals. Large, strong plant with tall, fine spikes. A general favorite. Each, 25c. Doz., \$2.50. 100, \$18.75.

Special Offer

"Ruffled" Gladioli Collection, consisting of one bulb each of the above ten varieties, in mixture, for \$2.25.

Primulinus Hybrids

The most graceful and dainty specie of gladioli, slender stemmed, with delicate airily-poised petals in fine and varying shades of yellow, orange, saffron, and soft pastel tints.

Cygnus (R-1925)—Beautiful salmon apricot.

Lower petals softest daffodil-yellow with fine pink throat lines. A large, very choice, delicate and refined Primulinus variety. Each, 50c. Doz., \$5.00. 100 \$37.50.

Golden Butterfly (1921)—Grand canary-yellow color. Lower petals deeper yellow, faintly blushed on outside of upper petals. Very wide open, butterfly form. Each, 30c. Doz., \$3.00. 100, \$22.50.

Golden Tinge (1923)—Fine stem and plant. Very dainty, orange salmon flowers, deepening toward ends of petals. Lower petals deep yellow with beautiful golden throat lines. A very beautiful throat and a grand variety in every way. Each, 25c. Doz. \$2.50. 100, \$18.75.

Lilac Old Rose (1923)—Large blooms of lilac old rose color. Strong plant of good height and from four to six of these beautiful blooms open at a time. Each 35c. Doz., \$3.50.

Midsummer Dream (1918)—A large, beautiful geranium-red. Showy, fine. Each, 25c. Doz., \$2.50. 100, \$18.75.

Taurus (1925)—A beautiful Primulinus Hybrid of a fine purple or purple-violet color. Distinct, rare and fine. Each, 75c. Doz., \$7.50. 100, \$56.25.

Ulrica (R-1918)—A wonderfully choice, rich yellow overspread lightly orange. Large flowers and very attractive. Each, 25c. Doz., \$2.50. 100, \$18.75.

White Butterfly (1922)—A first-class all-white with soft, cream white throat. Fine, slender stem and beautiful cut flower. Each, 25c. Doz., \$2.50. 100, \$18.75.

Special Offer

"Primulinus Hybrids" Gladioli Collection, consisting of one bulb each of the above eight varieties, in mixture, for \$2.00.

GLADIOLI—Continued

Solid Petaled Wonders

- The sorts given below have been carefully selected, as interesting and beautiful types of the solid-petaled class of gladioli.
- Battle Creek (1923)—An attractive, almost self-colored deep violet, a little deeper in throat. Good size and many opened at a time. A showy flower. Each, 30c. Doz., \$3.00. 100, \$22.50.
- Blue Isle (1916)—A good sized lilac-blue, dark red blotches. None better in this class. Each, 30c. Doz., \$3.00. 100, \$22.50.
- Challenger (1915)-Very large and vigorous plant. Giant, dark, rich velvety red, solid color. An extra-ordinary fine variety. Each, 20c. Doz., \$2.00. 100, \$15.00.
- Dr. Elkins (1922)—A true sport from "Mrs. Frank Pendleton". Same large and showy flower, but the original rose-pink has changed to a white and the large throat blotches to a fine shade of lilac-blue. A distinct and classy flower and a decided acquisition. Each, 75c. Doz., \$7.50. 100, \$56.25.
- Flaming Vale (1921)—Very tall; long spikes with large, deep cardinal-red flowers. Throat a little deeper. Pure self-color effect. Very good. Each, 20c. Doz., \$2.00. 100, \$15.00.
- Goshen (1923)—A fine Pendleton seedling of medium deep silvery rose-pink color. Large, showy rose-red blotches. Very good. Each, 35c. Doz., \$3.50. 100,
- Highland Laddie (1925)—Large, massive and beautiful pink of a decided and pleasing shade. A very choice kind and a rapid multiplier. Each, 75c. Doz., \$7.50. 100, \$56.25.
- Lavender America (1915) A very large, beautiful flower of most artistic form and striking general appearance. Solid lavender color. Tall plant, strong grower, rapid multiplier. Each, 35c. Doz., \$3.50. 100, \$26.25.
- Dr. J. H. Neeley (1923)—Tall, massive plant. Very large and refined flower of finest blushed white. Throat clear and clean, pure soft white, tinted softest light canary-yellow or cream. A grand variety. Each, 30c. Doz., \$3.00. 100, \$22.50.
- Pantheon (1922)-A large and massive waxy white on tall, strong plant. Lower petals beautifully penciled and feathered rose. Each, 20c. Doz., \$2.00. 100, \$15.00.
- Rosy Glow (1918)—Giant plant, massive flower of fine rose-pink on white ground. Very beautiful. Each 25c. Doz., \$2.50. 100, \$18.75.
- Senator Knox (1922)—Extra tall, strong plant. Large flowers. White, blushed pink with slight throat lines. Very good and unusually distinct. Each 30c. Doz., \$3.00. 100, \$22.50.

Special Offer

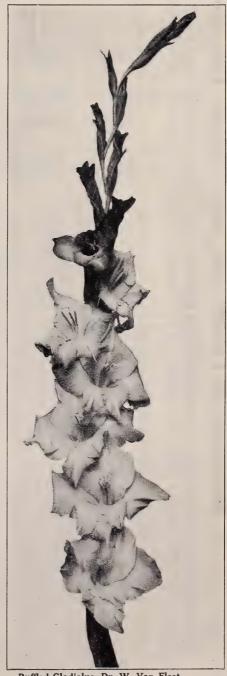
"Solid-Petaled Wonders" Gladioli Collection consisting of one bulb each of the above twelve varieties, in mixture, for \$3.00.

"Special Combination

We are pleased to offer a combina-tion of these three gladioli collections

"Ruffled", including ten varieties.
"Primulinus Hybrids", including eight varieties.
"Solid-Petaled Wonders", including

twelve varieties.
This includes one bulb each of the thirty varieties, for \$7.00.



Ruffled Gladiolus, Dr. W. Van Fleet

A Summary of Flower List and Cultural Directions

This table contains certain main points of interest regarding the flowers here listed. More complete descriptions and directions regarding each one will be found in the following pages of the Flower Section. We have endeavored to make them interesting as well as instructive. Chicago planting time is given.

Name	Pronunciation	Standardized	Common Name	Height	Colors	Indoors	Outdoors	Soil and	Location	Will Bloom
AgeratumAlyssumAlthea roseaAntirrhinumAntilegia.	a-jèr'-a-tum	Ageratum Alyssum Hollyhock Snapdragon	Floss Flower. Alyssum. Hollyhock Shapdragon. Columbine.	9" to 18" 6" to 1' 6' to 8' 1' to 3' 2' to 3'	Blue, white, pink. White, lavender, yellow. White, to deep red. Red, orange, pink, white.	March March March e March March	June 1 May 1 July to Sept July to Sept	Good Good Rich Good Good	Sunny Sunny Sunny Sunny Sun or shade.	July to frost June to frost August July to frost
1 1 1 1 1 1	as'-ter	Aster Calendula Bellflower Coxcomb	Aster Lot Marigold Canterbury Bell Goxcomb Bachelor's Button	1, to 3, 2, 8" to 4' 312' 1, to 2'	Various and beautiful Yellows and orange Blue, white, rose Crimson, yellow.	March March April March	June-July. May 1 July-Sept May 15	Rich Good Rich Rich	Sunny Sunny Sunny Sunny Sunny	July to Oct. June to Oct. June to Aug. June to frost
E	kō-bē'-a (Johaca kūz'-mos Cosmos kū-ker'-bl-ta Gourd dā'-li-a lahlia dā'-lin'-l-um lahlia	Cosmos Gourd Dahlia	Cosmos Gourd Dahlia Larkspur	10" to 20" 1' 15' 1' to 6'	Pink, rose white. Dink, rose white. Ornamental fruit. Various and beautiful. Blue, white, pink.	March March March March	May 15 June 1 May 15	Not too good Good Rich Rich	Sunny G.Sunny Sunny Sunny	July to frost. September Aug. to frost June to frost
Dianthus Digitalis Dolichos Eschscholtzia.	Dianthus di-ān'-thus Pink Digitalis dlj-i-tāl'-is Coxglove Dolishos dol'-l-kōs. Dolishos Eschscholtzia c-shōit'-si-a. Calit' Joppy. Helichysum hō-ll-kri'-sum Gverlasting.	Pink Foxglove Dolichos Calif. Poppy	Pink & Sweet Wm. Foxglove. Hyacinth Bean. Calif. Poppy.	1, to 1½, 3, to 4, 10, to 15, 1, to 1½, 2,	1/ to 1½. Red, pink, white	March March March	July to Sept June 1 May 15 May 15	Good Rich Rich Good	Sunny Partial shade. Sunny Sunny	July to frost July, Aug. Aug. and Sept. July to Sept.
Humulus Iberis Impatiens Ipomet	nu'-mū-lŭs. i-bē'-ris. im-pā'-shi-enz. ip-ŏ-mē'-a.	Llop Candy tuft Snapweed Morning-Glory Torchlily	Candy tuft. Balsam. Thiloma	20' to 1' s' to 1' s' to 15' s' to 15' s' to 4'	Vine White, lavender-pink l'ink, white, rose White, blue, pink Orange and red	March April March March	May 1 May 15 June 1 June 1	Good Good Rich Rich Good	Sunny Sunny Sunny Sunny	June to Oct. July to frost July to frost July to frost
		Pea Stock Four-o'clock Porget-me-not.			Various and beautiful Yellow, pink, white Red, yellow, white Blue and white	Pebruary March April	May 15 May 15 May 15 May 15	Rich Good Good	Sunny Sunny Sun or shade. Partial shade Sunny	June to Oct. July to Oct. July to frost June to Aug. July to frost
9	A Poppy Poppy	Poppy. Petunia. Phlox. Ground Cherry. Portulacea.		1, to 1,2' 1, to 2,2' 1, to 2,2' 2, to 1'	"Pink, red, white, yellow." Pink, purple, white "Various and beautiful." Orange-red fruit. Various and beautiful	March March	May 15 May 30 March May 30	Good Good Good Poor	Sunny Sunny Sunny Sunny Sunny	June to Aug. June to frost July to frost Aug. to frost July to frost
Reseda Scabiosa Salpiglossis Saponaria Salvia	Reseda rē-sē'-da Mignonette Scabiosa skā-bl-7'-sā Scabiosa. Sa pig lossis sāl-pl-g los-staSaa pig lossis Saponaria sāl-vi-a Salvia	Mignonette Scabiosa Salpiglossis Soapwort Salvia		2, 2, 8, to 1, 2, to 2,½.	Greenish and fragrant Various and beautiful Various and beautiful Pink Red, blue	March April March March	May 30 May 15 May 15 July to Sept May 15	Good Good Indifferent Good	Sunny Sunny Sunny Sunny	July to frost July to frost Aug. to frost May and Jun Aug. to frost
	Statice stat'-isë Tracetes n je jë-tëz Trunhergia thun-her-ii-a Tronacolum rō-pë-ō-lum	Thrift Marigold Mockvine Nasturtium	Sca Lavender Marigold Black-eyed Susan Nasturtium	1, to 2 1/2, 1, to 3/ 2, to 3/ 1, to 8/	Pink lavender, white Yellow, orange-brown Buff, white, orange Various fine	March April April	May 30 May 30	Good Good Poor	Sunny Sunny Sunny Sunny	June to Aug. July to frost July to Aug. June to frost
Viola Verbena Zinnia	vi'-ō-la Violetver-bē'-na Verbena	Violet Verbena Zinnia	Violet or Pansy	1, 40, 97	Blue and white Various and beautiful	February May	July to Sept.	Good	Sunny	June to frost

BARNARD'S flower seeds are selected with greatest care from the best obtainable strains. We take special pains to send out those of HIGHEST QUALITY only. Our list has undergone a thorough revision, and now embraces only the choicest types in their respective classes. We sell every variety by the packet; some popular sorts are offered by weight as well.

The arrangement is alphabetical, the various plants being described by class, hardiness, height, color of flower, time of bloom, etc. This information will be an aid to determine whether or not the flower under consideration meets your requirements or otherwise.

Journeys have been made to the great fields where are grown our seeds of Zinnias, Sweet Peas, Asters etc., and many new varieties are tested in our Trial Garden.

Plants are divided according to their hardiness into two general classes: Annuals and Perennials. Annuals are subdivided as Tender and Hardy, while Biennials and Perennials are either Half-Hardy or Hardy.

A smaller division is designated as Greenhouse Plants.



TENDER ANNUALS should be sown in house or hotbed, and not transplanted outside until the weather is warm, May 15th or later.

LIST OF TENDER ANNUALS

Chrysanthemum Marigold Phlox Balsam Convolvulus Marvel of Peru Portulacca Beans (Flowering) Cosmos Nasturtium Poppy Calendula Everlastings Nicotiana Scabiosa Candytuft Petunia Ipomea Zinnia Celosia Larkspur

HARDY ANNUALS may be safely sown outside in March or April, or earlier, indoors, for transplanting outside. They may also be sown in the fall for earlier Spring blooming.

LIST OF HARDY ANNUALS

Alyssum Eschscholtzia Mignonette Centaurea Helianthus Sweet Peas

BIENNIALS are plants that blossom from seed the second year and then die. Some of our most beautiful flowers are Biennials and it would seem to be quite discouraging to care for a seedling a full year, see it bloom once, and then die. This biennial character has been largely overcome by the method of sowing the seed inside very early in the spring. These young plants, if kept growing thriftily, generally flower the first fall. They may also be sown in the late summer and fall for early flowering the next year. Hold over the winter with slight protection. Do not cover too heavily. Leave air-space by first placing a little brush over the plant, over the brush place strawey material. Wait until after a hard freeze before covering at all. Do not remove too early in the spring, as alternate freezing and thawing works havoc with the plants.

LIST OF BIENNIALS

Anchusa Campanula Hollyhock
Antirrhinum Digitalis Sweet William
Aquilegia

PERENNIALS bloom the second year from seed and the plant lives and blooms indefinitely. If sown in early spring many Perennials will blossom the first year

Myosotis Achillia Coreopsis Pansy Phlox (Hardy) Anemone Chrysanthemum Anthemis# Delphinium Aster (Hardy) Digitalis Pyrethrum Boltonia Gaillardia Rudbeckia Bocconia Helenium Violas

Many true Biennials and Perennials should be treated as Annuals and sown every year

GREENHOUSE PLANTS are those which will not stand the slightest frost. All such are most satisfactorily raised in the moist, even atmosphere of the greenhouse.

LIST OF GREENHOUSE PLANTS

Abutilon Cineraria Geranium
Asparagus (Fern) Clianthus Heliotrope
Begonia Cyclamen Smilax

Barnard's Selected Flower Seeds

Abronia A-brö'-ni-a Umbellata (Sand Verbena)
An annual trailing plant which thrives
in poor soil. Its fragrant pink flowers are borne in in poor soil. Its fragraclusters all summer......

Abutilon A-bū'-til-on (Flowering Maple) 4 ft. Shrubby plants, suitable for house, garden. Drooping, bell-shaped flowers.

Achillea

Ak-i-lē'-a (Milfoil or Yarrow)
Perennial. Dependable for summer and fall blooming. Grows
early bloom. Responds to good soil and plenty of
water, but will yield good results without.

MILLEFOLIUM ROSEA (Rosy Milfoil) Grows 2 or 3 ft., has dark, fern-like foliage and with soft rosy-pink flowers makes an admirable plant for midsummer, as it resists drought well. Place in small clumps between, and slightly before, shrubs of graceful habit such as Privet Ibota or the SpireasPlants 25c each; Doz. \$2.50; Pkt. 10c

Aconitum (Monk's Hood)
Perennial. Aug. and Sept.
One of the finest blues in
cultivated. A year is gained by fall sowing. Do
not disturb the roots. At its best if massed with
shrubs. Attain full perfection the second year.
Root, leaves and flowers are poisonous. Ak-ō-nī-tum (Monk's Hood)

NAPELLUS, dark blue, 3 to 4 ft. Aug.......Pkt. 10c WILSONI, pale blue, 5 to 6 ft. Sept.....
Plants 40c each; Doz. \$4.00

Acroclinium

Ak-ro-klin'-i-um nual. One of the popular "Everlastings": 1

ft.; cut when in bud, strip stems of leaves and hang by the stems in a cool, dry place. Useful for winter bouquets and wreaths. ter bouquets and wreaths.

Adlumia Ad-lū'-mi-a Cirrhosa (Allegheny Vine)
Biennial. Feathery climber, 15 ft., pink
flowers in midsummer. Sow seeds where they are to grow

Ageratum

A-jěr'-a-tum or Ag-er
ă'-tum Annual. Succeeds anywhere. Soft blues and a pink that enter useful for cutting. Grows easily from seed. Mix with sand or fine earth to insure even distribution. March sown in house or hotbed, will give fine plants for summer blooming. Wait until ground is quite warm before sowing outside. These late sown plants will be at their best from summer until frost. Keep the old flowers clipped; their rusty color is undesirable. In very rich soil they may be grown 8 inches apart. Otherwise, more closely.

IMPERIAL DWARF, white. 9 in. ½ oz. 15c; pkt. 10c

IMPERIAL DWARF, white, 9 in. 1/8 oz. 15c; pkt. 10c IMPERIAL DWARF, mixed, 9 in. 1/8 oz. 15c; Pkt. 10c

LITTLE BLUE STAR, 5 in.; bright blue Pkt. 15c MIXED, 18 in1/4 oz. 15c; Pkt. 10c

1/4 oz. 25c; Pkt. 10c



"Little Gem" Alyssum, Barnard's Selected Strain



Aquilegia, Hybrids

Aquilegia

Ak-wi-lē'-ji-a. (Columbine). Perennial. 2 to 3 ft. With foliage like a maiden hair fern and flowers of pure white, blue, rose, yellow and purple, this lovely flower seems to satisfy every requirement for adorning the garden or decorating the home. For planting in permanent borders or edges of shrubbery this old favorite is one of the best. If, after the first period of bloom the entire plant is sheared to a height of 6 or 8 inches, the foliage immediately springs up and is a clear fresh green the remainder of the summer. Columbine is in its prime the second year after sowing and usually degenerates after that. Therefore, in order to have them always at their best, seed should be sown every year. Its low spreading foliage gives excellent protection to the soil, therefore, for summer blooming, with plants of insufficient foliage, such as the Annual Larkspur, Clarkia, Salpiglosis, Schizanthus, Saponaria, etc., it combines most effectively. Clumps of Snapdragon and Columbine set at irregular intervals throughout the border make attractive bits of color.

CANADENSIS. Scarlet and yellow; native.. Pkt. 10c CHRYSANTHA. Single. Long-spurred, yellow, single LONG-SPURRED HYBRIDS. Extra fine mixture Pkt. 15c
VULGARIS. Single, mixed, 1/4 oz., 20c......Pkt. 10c DOUBLE MIXED, 1/4 oz., 20c.....

Agrostemma
Agrostemma
Agrostemma
Agrostemma
Agrostemma
Agrostemma
Agrostemma
Agrostem
Plank). Grows from
July. Prefers a sunny location. Plant in clumps

CORONARIA (Rose Campion). A biennial, therefore, flowers may not be expected until the second year. They are, however, well worth waiting for..Pkt. 10c

Amaranthus Am-a-răn'-thus, Annual. Gay col-ored foliage is the chief recom-mendation of this plant. Some varieties are used for borders, while others are tall enough to serve as backgrounds or centers of beds. Plenty of sun and rather a poor soil is necessary to bring out its rich-est coloring. Easily raised from seed, which, how-ever, does not always come true from the finest sorts.

FINE MIXED. Above and others... 1/4 oz. 15c; pkt. 10c

.....Pkt. 10c Anemone An-ē-mō'-ni or A-něm'-ō-ne.

Aristolochia Ar-is-to-1ō'-ki-a, Sipho. (Dutch-man's Pipe). Perennial. A splendid climbing plant to train against a house or trellis. Heart-shaped leaves Plants heavy, \$2.00 each; Pkt. 10c



American Beauty

SELECTED NAMED ASTERS

For several years we have been making trials at our nursery of the many classes and strains of Asters now in cultivation. We believe the list which follows contains the most desirable sorts now in cultivation. The seed we send out was grown by experienced specialists, both American and European.

Heart of France 2 ft. Midseason. The best red petals are of a velvety texture and a warm-glowing color which is retained to the end. One distinctive feature is that in any light, either natural or artificial, the color is the same beautiful, rich red. Heart of France keeps indefinitely when cut, and stems are long and strong.

Pkt., 150

Lavender Gem 18 in. Early. Of upright habit, flowers of Ostrich-plume or Comet type, borne on slender, wiry stems. Silvery white when young, changing to lovely light lavender when fully expanded. Most desirable shade for all commercial

Crimson Giant

2½ ft. Late. Upright habit. Flowers large, double, bright crimson and very showy. On account of the fact that the color is particularly brilliant when viewed from a distance, this Aster is exceptionally fine for bedding in large park spaces and similar positions.

Pkt., 15c

Pink Enchantress

2 ft. Midseason. Vigorous, upright. The color is a soft, delicate pink, which does not fade either on the plant, nor when cut. The unusual construction of the flower (broad petals, loosely arranged), adds greatly to its beauty, and the long, graceful stems are a most desirable feature of this beautiful flower for decorative purposes. Pkt., 15c

Asters are one of the most important summer and autumn flowers, and receive special care at our hands. Our list comprises only such sorts as can be planted with perfect confidence that nothing better is procurable, no matter at what price or from what source.

ASTERS

The Early sorts begin blooming in July, followed by the Midseason kinds, which flower during August; then the Late-Flowering varieties, which are at their best through September. It is quite easy, therefore, with a little care in the selection of the varieties, to have Asters in flower from the first day in July until hard frost.

Giant Hohenzollern

A late branching Aster of the comet type. Immense flowers with beautifully broad wavy petals. Fine for cut flowers, mixture of all colors. Pkt., 15c

Betteridge's Quilled Yellow

A deeper shade than the "New Fancy" although, on the whole, it is not quite as attractive. Try out the two varieties, side by side and let us have the benefit of your experiment.

Day Break 1½ ft. Midseason. Erect and robust the flowers are a lovely seashell pink, round as a ball, very large and full, on long stems. Indispensible for decorative purposes. Pkt., 10c

Purity 1½ ft. Midseason. Erect and robust habit. break" except in color which is a beautiful glistening white.

EARLY ASTERS

Queen of the Market 1½ ft. Earliest of all. spreading, open, graceful habit. A profuse bloomer, bearing flat, full flowers on strong, stiff stems. One of the best Asters to grow for cutting. An old, reliable favorite. Lavender

Light Blue Dark Blue White

Crimson Rose Purple Mixed

Each of the Above, Per Pkt., 10c 3 Assorted Colors,

3 Assorted Colors,
Pkts., 25c

Royal 2 ft. Vigorous,
productive and
beautiful. Will succeed
under conditions that
would prove fatal to most
varieties. Flower stems
start from the plant close
to the ground, giving their
full strength to the production of many fine
flowers which are shellshaped. One of the best
all around Asters ever
produced. produced.

Pink Purple White Mixed Lavender

> Each of the Above, Per Pkt., 10c; 3 Assorted Colors, Pkts., 25c

Barnard's Exclusive Mixture

This "Mixture is made up especially for those who wish to grow an assortment of Asters. It includes the cream of the best varieties; Early, Midseason and Late Flowering, as well as the novelties offered this year, and the "Special Mixtures."

One may look with confidence for the Giant Hohenzollern, the strange "Quilled Yellow" the wonderful new red "Heart of France," "Pink Enchantress," and indeed any of the lovely flowers in this fine list of Asters.

A practical and interesting thing to do with this "Mixture" would be to plant it in a long row at one side of the garden and cultivate it with the vegetables, using the beautiful, striking and distinct flowers for cutting. Per Packet, 50c

MIDSEASON ASTERS

Individual flowers of the Astermum, Ostrichfeathered Crego and Mikado Asters are very similar
in shape. They are usually referred to as the
"Comet-Type" which is large and loosely formed,
with long, curling, twisted petals. These fall over
one another in careless, graceful fashion, quite distinctly like a Japanese Chrysanthemum.

Giant Comet 2 ft. Upright habit. Flowerpetals longer and broader than
the original Comet type. Good bedder.

Pure White Dark Blue Carmine
Pink and White Lavender
Light Blue Deep Rose Mixed

Pink and White Lavender Carmine
Light Blue Deep Rose Mixed
Each of the Above, Per Pkt., 10c;
3 Assorted Colors, Pkts., 25c

Stermum 2 ft. Upright. Family

than Crego. Each plan Astermum ² ft. Upright. Earlier than Crego. Splendid type of Aster. Each plant yields from 10 to 15 exceptionally large flowers, growing on sturdy, strong stems.

Pink White Box Box Lavender

Each of the Above, Per Pkt., 10c; 3 Assorted Colors, Pkts., 25c

Giant Crego 2½ ft. August. Highly developed type of the Comet Aster. Fine foliage and immense flowers. 5 to 6 in. across. Very loose in form. Very popular in the home garden. Its keeping qualities are excellent. Admirable for cutting, especially when it is not fully open. Should be included in every collection of Asters. Lavender is particularly lovely. Exceptional for interior decoration. oration

Pink White Lav Pink Purple Mix Each of the Above, Per Pkt., 100 3 Assorted Colors, Pkts., 25c Light Pink Dark Pink Mixed

LATE-FLOWERING ASTERS

Vick's Late-Branching 2½ to 3 ft. August frost. Branching, robust habit. Flowers uniformly large and double, on long, graceful stems, which are often 15 to 20 inches in length. Generally agreed to be the most superior Aster grown. Unexcelled as high class, quick selling, commercial variety. White Rose Lavender Pink Crimson Mixed

Each of the Above, Per Pkt., 10c;
3 Assorted Colors, Pkts., 25c

Milrado 1½ ft. Branching habit. August. Rather

Mikado 1½ ft. Branching habit. August. Rather very large Asters, with very long stems. Profuse bloomer and remarkably free from disease. Profuse bloomer and remarkably free from disease. Pink (Rochester) Lavender Rose White Each of the Above, Per Pkt., 10c; 3 Assorted Colors, Pkts., 25c

King 18 inches to 2 ft. Very erect habit. The Royal is in its prime, just before the Late-Branching kinds. The flowers are peculiarly quilled. Very lovely; large, full and round. They are said to last longer than any other Aster. One great virtue is that it resists heat excellently well.

Lavender King Violet King (Exquisite Shade)

Rose King

Each of the Above, Per Pkt., 10c; 3 Assorted Colors, Pkts., 25c

Beauty Type It is the first of a new strain of

Beauty Type It is the first of a new strain of growth, blossoming in early September. A valuable addition to the American Asters. It is similar in type of flower and growth, but differs in that all the large blossoms are produced on much longer and heavier stems. The flowers are fully double to the last

AMERICAN BEAUTY. The flowers are fully double to the last and are a most

lovely shade of bright carmine-rose.
White Beauty Lavender Beauty
Light Pink Beauty Purple Beauty
Mixed
Each of the Above, Per ½ oz., 40c; Pkt., 15c

California Giant 2½ to 3 ft. It would seem a upon the Beauty type of Aster, but this, we are assured has been done. Larger and more substantial flowers, measuring 5 to 6 inches in diameter. What is particularly valuable to florists is the fact that they ship splendidly.

Light Blue Deep Rose

Each of the Mixed Dark Purple Mixed
Each of the Above, Pkt., 15c

Semple's Late - Flowering Branching t. Although this variety is given last it stands, the estimation of many Aster growers, at the



Comet Type Asters

head, both for the amateur and the florist. Beginning to blossom late in September it continues uninterruptedly through October until the heaviest frosts. The outside flower petals are straight. Center, twisted and curled. Mary Semple, an exquisite shell-pink, still continues to be one of the finest of this color.

White

Shell Pink (Mary Semple)

Light Blue Lavender Purple

Rose Crimson

Mixed

Mixed

Each of the Above, Per Pkt., 10c;

3 Assorted Colors, Pkts., 25c

How to grow good Asters. It is thought by some that the finest asters are those planted out of doors in the place where they are to blossom. By this method, however, flowers cannot be expected until late August or September. Why not try both methods? For indoor sowing plant seed in shallow boxes, water sparingly and give full sunshine. Keep the young plants growing hard. When 3 or 4 leaves have developed transplant to the open ground. The soil must have been carefully prepared, rich and deeply spaded. Only thoroughly composted manure may be used. Airslaked lime or fresh wood ashes may be stirred lightly into the soil before planting. Bone Meal, Sheep Manure (pulverized), and Acid Phosphate are considered excellent fertilizers for the Aster.

The young plants should be well mulched with lawn clippings until they have grown sufficient foliage to shade their own roots.

Thrifty plants that make steady progress are not as apt to be troubled with disease or insects and yet these troubles will appear "in the best of families." Should either of these misfortunes occur, do not be too cast down. Give up asters for a year or two and then try again. Never grow asters in succession on the same piece of ground.

It is strongly recommended to make every year a number of plantings from March till June. Sow seed of the different kinds at each planting. In this way one is able to determine which kinds seem to do best under the conditions which obtain in one's garden, as to soil, climate, etc.

The following is a list of fairly dependable varieties with which one may experiment:

Giant Comet—in colors

Giant Comet—in colors

Semple's Late—Flowering Branching

Especially Mary Semple

Doubtless one will also wish to experiment a bit with other lovely varieties such as:
Heart of France, Pink Enchantress, Daybreak, and crimson Giant.



Giant Antirrhinum or Snapdragon

Antirrhinum Antir-ri'-n u m. Annual. 1 to 3 ft. Antirrhinums or Snap-

dragons are now receiving the attention they deserve. Undoubtedly they are one of the best cut flowers which can readily be grown from seed, while for beds or borders they are a constant source of pleasure, being in flower all the time. They succeed best in a rather light soil, in a sunny position. For early flowering, sow in fall, protecting the plants with a covering of leaves through the winter. Sown in spring they bloom by midsummer, and if the flowers are cut freely the flowering is continuous till frost. If intended for winter flowering in the house, cut them well back in September. The snapdragon, like most perennials and biennials which bloom the first year, is treated like an annual and sown every year.

bloom the first year, is treated like an annua	u	and
sown every year.		
NEW TALL GIANT FLOWERING SORTS.		
Apple Blossom, rosy pink, yellow lipPl	ct.	15c
Defiance, brilliant cinnabar scarletPl	ct.	15c
Golden Queen, deep yellowPl	ĸt.	15c
Gotelind, light orangePl	ĸt.	15c
Rose	ĸt.	15c
Rose P Ruby, dark redP	ĸt.	15c
Purple King	ĸt.	15c
Snowflake, pure white, yellow tubePl	ct.	15c
Mixed, composed from choice varietiesPl	ĸt.	15c
TALL LARGE FLOWERING SORTS.		
Brilliant Rose, very fine	ĸt.	10c
Cardinal, new brilliant scarlet, very beautif	ul.	
P	ĸt.	10c
Carmine King, brilliant carmine, white thro	at.	
P	Kt.	TOC
Coral Red, new, lovely colorP	KT.	10C
Fire King, scarlet with orange, fineP	ĸt.	10c
Golden King P Othello, rich, dark maroon P Rose Queen, rich rose P	ĸt.	10c
Othello, rich, dark maroonP	ĸţ.	10c
Rose Queen, rich rose	ĸţ.	10c
Queen Victoria, white	Kt.	100
venus, pink on white ground, white throat,	sul	drag
Mixture of choice varieties	EŢ.	100
Mixture of choice varieties/8 oz. 20c; P.	ĸt.	100
SEMI-DWARF.		
Black Prince, nearly black, small dark leaves	3, T	very
fine P	Kt.	10c
Brilliant Rose, very line	E. U .	TOG
Carmine, purplish carmineP	ĸt.	10c
Fawn, terra cotta pink, suffused yellowP Golden Queen, clear yellowP	KT.	100
Golden Queen, clear yellowP.	Kt.	100
Rose Shades P Silver Pink, pearly pink self P	KÜ.	100
Silver Pink, pearly pink self	EG.	100
The Bride, pure white, excellent	L 6.	100
Mixture of choice varieties /2 oz. 20c; P.	K. U.	100

Armeria Ar-mē'-ri-a.. (Sea Pink.) Perennial. Fine plant for rockery or edge of hardy border. Flowers beautiful shade of pink, blooming at intervals from early spring to late fall. Combines well with Alyssum or Candytuft....Pkt. 10c

Artemisia Ar-te-miz'-i-a. Sacrorum Viridis (Summer Pir). Annual. An ornamental plant, attaining a height of 3 to 5 ft. the first year. Pyramidal in shape, like a Christmas tree. Foliage dark green. Easily grown from seed.

Pkt. 10c

Asparagus As-păr'-a-gus. SPRENGERI. (Emplants to grow in baskets, for greenhouse or for outdoors in the summer. The fronds frequently grow 4 feet long, and are now considered indispensable in all fine decorations; grows readily from seed.

Pkt. 10c

Balsam Bal'-sam. (Lady Slipper, or Touch-MeNot). Annual. 2 ft. One of the oldest
and best known summer blooming annuals of easy
culture. Desirable for garden or pot culture.
Balsams need rich soil, hot sun, and plenty of water.
Sow the seed half an inch deep in window boxes or
not-beds early, or in the open air in May, and transplant when two or three inches in height. Stimulate
by weekly applications of liquid manure. The delicate flowers of waxy texture are borne along the
stems among the leaves. The seed we offer cannot
be excelled for quality.

Balsam Apple and Pear

Annual. 10 ft.
Very curious
climbing vine, with ornamental foliage, fruit golden
yellow, warted, and when ripe, opens, showing the
seed and its brilliant carmine interior.

BALSAM PEAR. (Momordica Charantia). Pearshaped fruit; the fruits are long and used medicinally.Pkt. 10c

BALSAM APPLE. (Momordica Balsamina). Round apple-shaped fruit with very fine glossy green foliage _______Pkt. 10c

Balloon Vine (Love-in-a-Puff). 5 to 10 ft.
Annual. A rapid-growing climber; flowers white; seed vessels look like miniature balloons and are of great interest to children.

Pkt. 10c

Beans Ornamental. Phaseolus-Fā-sē'-o-lus. The foliage being dense makes it splendid for porches or any location where shade is desired, or for covering unsightly fences. A great favorite in Europe, not only as an ornamental climber, but for the delicious edible pods which succeed the bright scarlet sprays of pea-shaped blossoms.

SCARLET RUNNER. An exceedingly rapid grower.
Its strong vines are always clothed with deep scarlet flowers from early summer until fall.

Pkt. 100

BUTTERFLY BEAN. Will grow in any soil. In bloom from July to September. The flowers are distinguished by pure white wings and scarlet standard. Pkt. 10c

There is a theory among flower lovers that a garden should be 80 per cent green. Do we sufficiently consider the importance of this restful, harmonizing color, or are we planning for "just flowers."



Calendulas

Begonias

Begonias take rank as bedding plants with Geraniums and Coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about one foot high and forming dense bushes, which, from May until frost, are completely hidden with flowers. As pot plants for winter flowering they are superb, remaining a sheet of bloom throughout the entire year. Easily raised from seed, which should be started either indoors or in a hotbed. The seed is very fine and should be pressed in the soil without covering.

Everblooming Bedding Varieties.

DWARF VERNON. Fine scarlet bedder Pkt. 15c PRIMA DONNA. Rose-colored flowers... Pkt. 20c SEMPERFLORENS ALBA. WhitePkt. 10c VERNON. Orange-scarlet flowers; leaves dark green. Pkt. 10c

Annual Flowering Plants are useful for quick though ers at a season of the year when blossoms on permanent plants

ers at a season of the year when sear scarce.

When bodies of perennials and shrubs are newly set, they often look thin and ragged. Here interplantings of Annuals may be helpful either by filling the otherwise bare spaces with attractive foliage, with bright flowers, or both.

Again, Annual Plants are useful on rented places where the tenant would seldom go to the expense of more permanent planting. They are quickly, easily and cheaply grown, and their range of size and other characteristics makes it possible to secure temporarily many of the effects produced by the use of perennials and shrubs.

and shrubs.
In the following list are a few Annuals which have proved the most popular and easy to grow. By carefully reading the Flower Seed Section of this catalogue many other interesting plants will be found to add to this collection.

Antirrhinum Calendula Alyssum Candytuft Phiox Drummondi Ageratum Helianthus Portulacca Aster Hollwhock Marigold

Aster

Petunia Phlox Drummondi Portulacca Marigold

Hollyhock Marigold
Zinnia
"Farmers' Bulletin 1171, U. S. Dept. of Agriculture."

Bo-kō'-nia. Cordata.

Bocconia

Boltonia

Bol-tō'-ni-a. Perennial. July through September. Fall plants for the hardy border. Large flower Aster. It grows tall in rich soil and the plants should be allowed to grow rather close to each other as the stems are inclined to fall. If the plants are pinched back when about 3 ft. they will grow more compact and bloom more freely. The foliage is a delicate grey-green, a color much prized in the hardy garden. Seeds grow easily. Once established it will become a prime favorite. Groups of Boltonia with Michaelmas Daisy or any of the Perennial Asters make lovely combination for the fall garden.

ASTEROIDES. Pkt. 10c; Plants 25c Each; Doz. \$2.50 LATISQUAMA. Pkt. 10c; Plants 25c Each; Doz. \$2.50 BOSTON IVY. See Ampelopsis.

Brachycome Brak-i-kō'-me. (Swan Eiver

Browallia Bro-wal'-i-a. (Amethyst.) Annual. 18
Browallia in. One of our best blooming bedding
Pkt. 100

Calendula

Ka-lén'-du-la. (P o t
Marigold.) Annual. 2
ft. This is the "Marygold" of Shakespeare's
jodl" of Shakespeare's
gold" of Shakespeare's
showiest free-flowering
hardy annuals, growing in any good garden soil,
producing a fine effect in beds or mixed borders,
particularly bright in late fall. Keep flowers carefully picked allowing no seed to form, as the old
flowers give a very ragged appearance to the plants,
and also, to prevent self-sowing. Sow where they
are to grow 2 or 3 seeds together and pull out the
weakest ones. A stand-by especially for mid-summer. Fresh seeds should be purchased every year.

OBANGE KING, glowing orange. Pkt. 10cPkt. 10c ORANGE KING, glowing orange ... METEOR, yellow, striped with orange Pkt. 10c NANKEEN, creamy yellow, flushed apricot Pkt. 10c1/4 oz. 15c; Pkt. 10c MIXED, all sorts

GOLDEN WAVE Pkt. 10c

Bellis

Bél'-is. (English Daisy.)

Bellis

April to June. A favorite plant, which will stand the winter if given the protection of a few leaves or litter; in bloom from early spring until well on in the summer. The seed we offer is saved from the finest double varieties; easily raised from seed; usually sown in August, but can be sown in spring, and for best results should be sown each year.

MONSTROSA. White or red. Each per Pkt. 15c EONGFELLOW. Large, dark pink. Pkt. 15c ENNOWBALL. Fine white. Very double. Pkt. 10c DOUBLE MIXED. All colors. Pkt. 10c



Campanula (Canterbury Bells)

Campanula

A favorite with all. Stately and show, and of the easiest growth. The seeds should be sown about April, in finely prepared, rich soil. By July the little plants should be transplanted, either to the places where they are to bloom the following Summer, or else they may be set out temporarily in rows about a foot apart, the plants eight inches apart, and finally transplanted early in October. Some evergreen branches, or a little straw or coarse hay, thrown over them when the ground begins to freeze, makes all the Winter covering these plants require. Sow every year for best results.

CAMPANULA MEDIUM. 2 ft. These will bloom the first year from seed if sown early.

Blue, fine shade. Pkt. 10c White, pure Pkt. 10c White, pure Pkt. 10c White, pure Pkt. 10c

CAMPANULA CARPATICA, COERULA. Blue. Pkt. 10c CAMPANULA CARPATICA ALBA. White. Plants 30c Each; Doz. \$3.00; Pkt. 10c CAMPANULA PERSICIFOLIA ALBA. White 2 ft. Pkt. 10c CAMPANULA PERSICIFOLIA COERULEA. Blue. 2
Pkt. 10c

CAMPANULA PERSICIFOLIA COERULEA. Blue. 2
ft. Pkt. 10c
CAMPANULA PYRA'MIDALIS (Chimney Bellifower). 4 ft. Blooms in late summer; tall, erect stems, beautiful blue flowers. Ptt. 10c
CAMPANULA PYRAMIDALIS ALBA. White. 4 ft. Plants 25c Each; Doz. \$2.50; Pkt. 10c
CALYCANTHEMA. Kal-i-kän'-the-ma. (Cup and Saucer Canterbury Bells.)
CALYCANTHEMA. Blue Pkt. 10c
CALYCANTHEMA. Rose Pkt. 10c
CALYCANTHEMA. Rose Pkt. 10c
CALYCANTHEMA. Mixed Pkt. 10c
CALYCANTHEMA. Mixed Pkt. 10c
CALYCANTHEMA. Mixed Pkt. 10c
CALYCANTHEMA. Mixed Pkt. 10c
Plants 25c Each; Doz. \$2.50
Canary Bird Vine (Tropeolum Canarismis).

Canary Bird Vine (Tropeolum Canarismis).

Pkt., 10c
Pkt. 10c
Pkt.

CACALIA (Ploras' Paint Brush). Orange

Candytuft (Iberis—i-bē'-ris.) Annual. No garden is complete w it hou to Candytuft. The White Hyacinth flowered variety 2 ft. high, combines beautifully with Columbine or Ageratum, either pink or blue. "The Purple," a delicate shade of lilac, with heliotrope and pink Ageratum. Candytuft varies greatly in manner of growth and in color. Plant seed of every variety in the Trial Bed and experiment with them in the regular garden. Make notes of the result for next year's planting. Do not forget the Perennial Candytuft. Some is low and compact for borders and other varieties grow 2 ft. in good soil. Fall sown seed blooms in June. Spring sown seed in July and August. Plant a few seeds all through the summer. Keep the old flowers clipped to insure long weeks of bloom.

CRIMSON. Glowing carmine rose	Pkt.	10c
BOSE CARDINAL	Pkt.	100
EMPRESS. White, large flowers	Pkt.	100
PURPLE. A beautiful shade of lilac	Pkt.	10c
QUEEN OF ITALY. Dwarf erect, pink	Pkt.	10c
HYACINTH-FLOWERED. White, 2 ft	Pkt.	10c
ANNUAL SORTS CDYTUFT, mixed		
1/4 oz. 15c;	Pkt.	100

PERENNIAL CANDYTUFT

	Blush white Pkt. Survives winter Pkt.	
OTHER PROPERTY IN	Buivives winterEkto	10

Carnation Annual These popular favorites are valuable for culture in the open ground in summer and for pot culture in winter. Seeds of the Margaret and Chabaud types sown in the spring will, by August, produce plants that will be full of bloom until frost takes them; or they may be cut back, potted, and carried over winter in a cool room. The Grenadin bloom the second season after sowing.

MARGUERITE, white. Fine double flowersPkt.	100
MARGUERITE, scarletPkt.	10c
MARGUERITE, pink	10c
MARGUERITE, mixed	10c
GIANT MARGUERITE. Double flowers Pkt.	10c
CHABAUD'S GIANT PERPETUAL. Blooms in	five
months after sowingPkt.	15c
RED GRENADINPkt.	
WHITE GRENADIN	15c
BARNARD'S CARNATION MIXTURE. Conta	
seeds which bloom first season after sowing_	
Pkt.	10c
FINE DOUBLE MIXED. Many colors	100

Castor Bean (Ricinus — Ris'-1-nus.) Annual. Decorative plants with palm-like foliage. Desirable to place in center of beds of Cannas, etc., giving to the garden magnificent subtropical effects; even a single plant forms a pyramid of leaves.

BORBONIENSIS ARBOREUS. 15ft. Green foliage—
01. 20c; Pkt. 10c
CAMBOGENSIS. 6 ft. Dark maroon. 01. 20c; Pkt. 10c
SANGUINEUS. 10 ft. Stems red; leaves green—
01. 20c; Pkt. 10c
EANZIBARENSIS ENORMIS—02. 20c; Pkt. 10c



Chinese Woolflower

Celosia Plumosa

Annual. Branching plants 3½ ft. high, bearing large, conical, plumed heads of either golden yellow, flery scarlet, purple, salmon, blood-red, stc. Good for cut-flowers. Grows easily and quickly from seed. Remarkable for combining with fall foliage for decorations where large effects are desired.

PRIDE OF CASTLE GOULD. This forms premidely

Celosia Cristata (Cockscomb) Grace ful plants, growing best in rather light soil, not too rich, producing beautiful comb-shaped flowers; grown in pots, they are fine for the greenhouse or conservatory.

PRES. THIERS OR GLASGOW PRIZE. Dark leaves, reimson combs Pkt. 10c
TALL COCKSCOMB, mixed Pkt. 10c
DWARF COCKSCOMB, mixed Pkt. 10c
CHRYSANTHEFLORA, mixed Pkt. 15c

Celosia Childsii (Chinese Woolflower.) A mag-proven a great success everywhere. Plants grow two to three feet high. Scores of branches are thrown out, each bearing a ball of colored wool, but not so large as the central one. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage. None fade in any way un-til hit by frost. SCARLET

SCARLET ... _____Pkt. 10cPkt. 15c YELLOW

White Leaved Centaurea (Dusty Miller.) vases, hanging-baskets and pots; also extensively used for borders. As an edging to a bed of dark-leaved Cannas or Scarlet Sage these are particularly effective. Sow the seed early indoors and transplant in May.

Centaureas

Sen-tâ-rē'-a. Annual. Under this name is included such popular annuals as the country, are perfectly hardy, will grow and do well almost anywhere, and are much in demand as cut flowers.

Cyanus (Corn-flower, Bachelor's Button.) Annual.
ture; one of the most graceful of all. Sow early in
the Spring in the beds where they are to bloom.
Thrives well in poor soil.
SINGLE WHITE Pkt. 10c
SINGLE FUNE PK.

SINGLE WHITE PRt. 10c
SINGLE PINK Pkt. 10c
BLUE EMPEROR. Single sky blue Pkt. 10c
SINGLE MIXED Pkt. 10c
DOUBLE BLUE. Same shade as the Blue Emperor.
Flowers semi-double with remarkable lasting qualities
DOUBLE PINK—DOUBLE WHITE Pkt. 10c
DOUBLE MIXED Pkt. 10c

Imperialis (Sweet Sultan.) Annual. 2 to 3 ft. 10c

Centaureas for cut flower purposes. The sweets artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best to sow very early in the Spring. (See cut.)

ROSE

LAVENDER.

in the Spring. (See cut.)

ROSE Pht. 10c

LAVENDER Pht. 10c

PURPLE Pht. 10c

WHITE Pht. 10c

IMPERIALIS, Mixed colors Pht. 10c

CENTAUREA SUAVEDLENS Bright yellow

CENTAUREA CHAMELEON Valley and 1880

CENTAUREA CHAMELEON. Yellow and CENTAUREA CHAMELEON. Yellow and rose.

Hardy Centaureas Pkt., 10c
CENTAUREA MONTANA. Perennial. 1½ ft. Very



Sweet Sultans CERASTIUM TOMENTOSA Pkt. 10c (Snow in Summer)

Chrysanthemums

Kri-săn'-the-mums. Annual varieties. The hardy annuals are summer-flowering border plants, and quite distinct from the hardy perennial varieties.

BRIDAL ROBE. (Double.) Of complete and upright habit. The plants grow about 12 inches high, and are covered the entire summer with their beautiful snow-white double flowers, which resemble the White English Daisy, Valuable for cutting. Pkt. 10c

BURRIDGEANUM. Pure white with zone of rich brownish red and yellow. Pkt. 10c

NORTHEEN STAR. Pure white, with canary-yellow zone around a dark brown eye. Pkt. 10c

THE SULTAN. (Single.) Crimson maroon. Pkt. 10c

EVENING STAR. (Single.) A splendid variety for cutting, flowers 3 inches across, of pure goldenyellow; in general appearance resembles the Yellow Paris Daisy Pkt. 10c

ANNUAL SINGLE MIXED. (Painted Daisies.) Many colors Pkt. 10c

FRUTESCENS. (Marguerite, or Paris Daisy.) Long-

PERENNIAL VARIETIES

SHASTA DAISY. Of bushy growth, bearing all summer a profusion of immense white flowers on long stems Pkt. 15c stems Pkt. 15c
ING EDWARD VII. Very large, white, much
larger than Shasta Daisy. Pkt. 10c
Plants of Either, Each 25c; Doz. \$2.50

Chinese Lantern Plant (physalis - fis'-a-lis.)

2 ft. Treated as an annual, this plant will form fruits the first season. Flowers are insignificant but the fruits are like little Chinese lanterns of bright scarlet. They dry well and are a great addition to the winter bouquet of grasses and leaves.

Pkt. 10c

Cineraria Sin-e-rā'-ri-a. Annual Beautiful plants for decoration of window, garden or conservatory in spring. Readily and easily grown from seed. Sow in July in boxes and transplant into small pots, changing them into larger size when required required.

GRANDIFLORA. Red, white and blue, etc. Mixed

MARITIMA. Annual. A silvery foliage plant desirable for edgings Pkt. 10c



Cobaea Scandens-Cathedral Bells



Shasta Daisy

Clarkia Klar'-ki-a. Annual. 1 ft. Largely grown in green houses for cutting. However, Clarkia has occasionally been successfully raised in the garden. The blossoms are extremely dainty and the plant is well worth a trial.

SINGLE, mixed Pkt. 10c

DOUBLE, mixed Pkt. 10c

Cleome Kle-ō'me. (Spider Plant.) Perennial. 3½ cliant ft. Wherever this plant is seen it immediately attracts attention. It is now used quite extensively in public parks, and proves interesting among the Hardy Perennials. Branches freely, each branch carrying a head of crimson flowers. The stamens somewhat resemble spider's legs...Pkt. 10c

Cobaea Scandens Ko-bē'a. Annual. One of the most statisfactory plant for this purpose. Unless seed has a very early start it is better to buy plants.

Ko-bē'a. Annual. One of the most statisfactory lightly. Cobaea has been most successfully used as a light shade supported by the netting of porch or window. The beautiful foliage, delicate tendrils and lovely flowers make a most satisfactory plant for this purpose. Unless seed has a very early start it is better to buy plants.

PURPLE Pkt. 10c
WHITE Red-

Coleus ding plants, growing about one foot high. Their foliage is highly ornamental. Easy to raise from seed. Sow indoors.

from seed. Sow indoors.
CHOICE MIXED
VARIEGATED HYBRIDS

Cypress Vine

a height of fifteen feet or more. Scalding the seeds before sowing hastens germination. Should be planted at the base of a tree or trellis and trained upon strings. Its dark green foliage and star-shaped flowers in clusters are a mass of beauty all summer long.

Red

Convolvulus

are one of the most free-flowering and rapid growing plants in cultivation, thriving in almost any situation; the beauty and delicacy of their brilliant flowers are unsurpassed. Soaking the seeds in warm water for an hour or two hastens germination; annuals 15 feet.

MAJOR OR CLIMBING MODEL.



Cosmos-Double Crested



Morning Glory

Pkt. 10c Pkt. 10c Pkt. 10c

ANEMONE-FLOWERED OR CRESTED COSMOS.

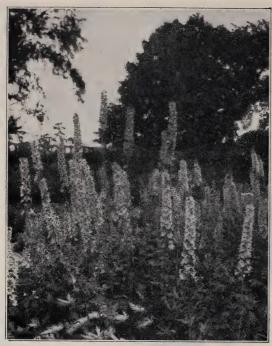
We consider this one of the best flower novelties of recent years. The colors are similar to those of the old type and the habit of the plant is vigorous. They come into flower about the same time as the Giant flowering.

	time as the Giant nowering.
Į	WHITE QUEEN, pure whitePkt. 10c
	PINK BEAUTY, soft pinkPkt. 10c
	CRIMSON KING, dark crimson
	DOUBLE CRESTED, mixed colorsPkt. 10c
	EARLY FLOWERING COSMOS. From seed started
	early in frames, and afterwards transplanted into
	light sandy soil, the plants will be 3 or 4 feet
	high by August, and will bear bright-colored.
	daisy-like flowers until frost.
	EARLY PINK Pkt, 10c
	EARLI PINK PRE 10c
	EARLY WHITE Pkt. 10c
	EARLY CRIMSONPRt. 10c
	TINTS OF DAWN. White grd. flushed with rose
	Pkt, 10c
	EARLY FLOWERING COSMOS, mixedPkt. 10c
ł	GIANT FLOWERED COSMOS. These do not usually
Į	bloom until late.
	LADY LENOX. pink. Admired everywhere. Size of
	flower 4 to 5 inches in diameter. Color, a beautiful
ı	shell pinkPkt. 10c
i	LADY LENOX, white. Largest pure white Pkt. 10c

LADY LENOX, pink and white, mixed...

GIANT RED ... GIANT WHITE GIANT PINK ...

Coreopsis Ko-ri-ŏp'-sis. Perennial. There seems to be a confusion in the minds of many concerning Coreopsis and Calliopsis. They are very similar in color and habit of growth, but Calliopsis is an Annual.



Delphinium (Perennial)

Del-fin'-i-um. (Larkspur.) Delphinium Del-fin'-i-um. (Larkspur.)
Perennial. 5 to 6 ft. Increasingly this fine flower

is coming into favor. It is hardy, grows easily, has a long period of bloom, and gives to the garden one of its stateliest plants, which bears tall spikes of exquisite blue flowers.

Plant Delphinium in groups before a green background. Shrubbery, a vine covered wall, or fence or lattice. A pergola, over which a luxuriant pink Rose is rambling, combines charmingly with the blue of the delphinium. The lovely Madonna lily has been the favorite companion of the Delphinium for a long time. "This combination, however, is becoming so usual that the time seems ripe for some daring spirit to try something else," writes John L. Rea in "The Garden Magazine." "Gaillardias; Peachbells; pink, white and yellow; Climbing roses; and the old Tawny Lily are a few of the things usually in bloom at the same time."

GOLD MEDAL HYBRIDS. These magnificent Hybrids produce splendid spikes of very large flowers, single, semi-double, and double. Flower spikes are from 3 to 5 feet in length. Colors range from pure white through all tints and shades of blue and lavender. Kelway Hybrids, exceptionally fine......Pkt. 25c Selected Hybrids, MixedPkt. 10c Belladonna, clear, turquoise blue; not equalled for delicacy and beauty by any other.....Pkt. 15c Belladonna Hybrids, Mixed. All colors from pale to deep blue ... Bellamosum-Fine dark blue..... Pkt. 15c Formosum-3 ft. Dark blue.... ...Pkt. 10c Formosum—3 1t. Dark Blue:
Formosum Coelestinum—Bright azure blue; fine.
Pkt. 10c CHINESE. 2 ft., admired for their handsome feath-

freely. BLUE Pkt., 10c WHITE Pkt., 10c MIXED Pkt, 10c

ery foliage as well as their flowers. Plants branch

Dahlia Dahlias are easily grown from seed and bloom the first season. The earlier they are started the better, which can be done nicely in a box in a sunny window or the greenhouse. Some specimens grown from seed are fully equal to many of the named sorts, and there is always the chance of getting some entirely new varieties. The Single Dahlias are being planted more extensively every year; they are quick and profuse bloomers, and their colors are especially rich and brilliant. Tuberous-rooted half-hardy perennials; protect the roots during winter in a dry cellar in sand. cellar in sand.

DOUBLE LARGE PLOWERING. This mixture is composed of the finest large flowering double varieties, which, for size of flower, excellence of color and habit can not be surpassed........Pkt. 10c

ACTUS VARIETIES. Most popular at the present time; distinct and elegant, petals pointed...Pkt. 15c CACTUS VARIETIES.

SINGLE, MIXED, from fine varieties.......Pkt. 10c See page 42 for varieties and price of bulbs

Datura Da-tū'-ra. (Trumpet Flower.) Bushy, strong branching plants, 2 to 3 feet high, bearing large trumpet-shaped flowers MIXED. Many varieties..... Pkt. 10c

DICTAMUS (gas plant).
Fraxinalla, pink Pkt. 10c
Albus, white Pkt. 10c

Dimorphotheca Di-mor-fo-thē'-ca. (Orange palsy.) 12 to 15 in. Hardy annual from Africa, invaluable for bedding in sunny situations. Blooms most profusely; desirable for cut flowers. Early sown seed will produce plant to bloom all summer.

AURANTIACA. URANTIACA. Flowers glossy, rich orange gold with dark center, surrounded by black zone. This is the parent variety......Pkt. 10c

AURANTIACA HYBRIDS. Similar in habit to the parent. The flowers range in color from purest white through yellow and orange to rich salmon, being zoned with same color around the center.

Dolichos Döl'-i-kos. (Hyacinth Bean.) Annual. age and bean-like flowers. Desirable for covering trellises and porches. Sow seed in a sunny spot in May

PURPLEPkt. 10c WHITE ... Pkt. 10c PURPLE AND WHITE, MIXED Pkt. 10c

Dealing With Delphinium

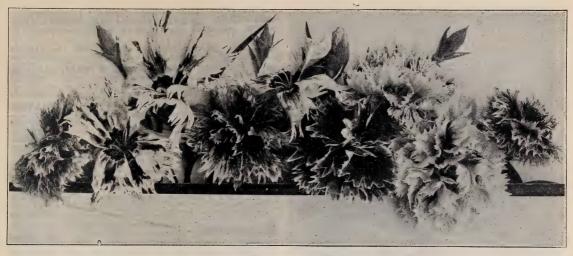
Sowing Seed. Soak the seed for 24 hours before planting. Start in March, sowing in shallow boxes of fine soil. Cover the boxes with glass and place in a sunny window. Delphinium is rather slow in making its appearance, and the period of germination is most critical. Never allow the earth to become really dry, though it must not be kept sodden, sprinkling lightly with a hand spray, the best way to water. As soon as the young seedlings are fairly growing, begin to harden them off by placing the boxes outside in a sheltered, sunny corner every pleasant day. ner every pleasant day.

Later sowings may be made in the garden in a large box placed in a protected but airy location. A soap box cut down to 3 inches is very good for this purpose. A light frame top-covered with cheese-cloth is an excellent protection against too much sun. Seed may be sown at any time until the last of June, and also late summer and fall until the middle of September. Later still, if grown in a cold frame.

Transplanting. When the March sown seed have formed their fourth set of true leaves, if all danger of frost is passed, they may be transplanted to the garden. Guard against soil that is too wet. It should be just moist enough to firm well about the roots. Plant them 6 inches apart in short rows and protect from sun and beating rain by light frame of wood with a top of cloth or spaced lath. Keep the earth lightly stirred about the young plants and occasionally dig in a sprinkling of bone meal along the rows. A light layer of lawn clippings as a mulch will help conserve the moisture, but this must not be allowed to become moldy. These early sown seedlings will doubtless bloom in the fall.

Note. Further suggestions in regard to the cul-

Note. Further suggestions in regard to the cure of Delphiniums can be found on pages 3, and 91.



DIANTHUS OR PINKS

Dianthus Di-an'-thus. (Fink.) This interesting genus, embraces some of the most popular flowers in cultivation, and produces a great variety of brilliant colors and profusion of bloom. The varieties classed as annuals are really biennials, but are treated as annuals and may be sown out of doors when the danger from frost is past, and in a few weeks' time they are a mass of bloom, continuing so until after hard frost. As a rule, they survive the winter if given slight protection, flowering abundantly the following season. They grow about a foot high and can be used in beds or borders of solid or mixed colors. The double-flowering sorts are almost as satisfactory as Carnations for cutting. They are not particular as to soil, but should have a sunny location. Old plants flower earlier, but new plants give finer, larger flowers—therefore sow every year.

Dī-ān'-thus. (Pink.) This

Double Annual Pinks (Chinensis fl. pl.)
CHINENSIS FL. PL. Large, double, fragrant flow Mixed colors ... HEDDEWIGH fl. pl. Mixed Japan Pink......Pkt. 10c FIREBALL. Double. Dark scarlet; beautiful..Pkt. 10c SNOWBALL, Double. White, fringed flowers.Pkt. 10c

DIADEMATUS (Diadem Pink). Double, mixed. .. Pkt. 10c

HEDDEWIGII. Single flowered...

CRIMSON BELLE. Single, talk, telescope and t CRIMSON BELLE. Single, dark, velvety red.Pkt. 10c

This splendid mixture contains the cream of the Dianthus family and unexpected results may be obtained by planting a package. We cannot recommend this mixture too highly. (See cut.)

1/4 oz. 30c; Pkt. 10c

HARDY DIANTHUS, GRASS OR SPICE PINES
PLUMARIUS SEMPERFLORENS PL. PLENO (Perpetual Pink).

Pkt. 10c

PLUMARIUS fi. pl. albus. White. Pkt. 10c
PLUMARIUS (Pheasant-Eye). A beautiful, single,
hardy pink with fringed-edged white flower, dark
center Pkt. 10c

Double and semi-double varie-PLUMARIUS fl. pl. Dou ties in mixed colors.....

Dianthus Barbatus. (See Sweet William.) Disdiscus. See Blue Lace Flower.





ESCHSCHOLTZIA

Eschscholtzia E-sholt'-si-a. (California Poppy.) Annual. 1 ft. Esgrowing in flower beds and masses. Sow where plants are to bloom. Bright, showy flowers and feathery foliage. Good for cut flowers. Very effective planted in front of Barberry. GOLDEN WEST. Large yellow flowers Pkt. 10c MANDARIN. Orange within; scarlet outside..Pkt. 10c DAINTY QUEEN. Coral pink_____Pkt. 10c ROSE CARDINAL .Pkt. 10c WHITE CARDINALPkt. 100 ESCHSCHOLTZIA LOVELY. We consider this Eschscholtzia well named, it being of a lovely tone of bright rose pink suffused with salmon, the blooms having a satiny appearance which adds very much to the effect. ESCHSCHOLTZIA MAUVE BEAUTY. new color previously unknown among Eschscholt-zias, it being a beautiful shade of pure mauve. ESCHSCHOLTZIA BALLET GIRL. Outside of petals intense cochineal carmine, inside of petals creamy white, beautifully frilled and fluted. The contrast of color combination in this variety is very startling. SINGLE MIXED .Pkt. 10c

(Strawflowers) **Everlastings** Annual

BUSH ESCHSCHOLTZIA (Hunnemannia.) Buttercup yellow, flowers from July until frost. Beautiful feathery foliage. Grows bush, about 2 ft. high Pkt. 10c

ACCROCLINIUM. Mixed colors 12 to 15 in... Pkt. 10c GOMPHRENA. See Globe Amaranth; 1 to 2 ft. HELICHRYSUM. Largest and most prized, 2 ft. Pkt. 10c XERANTHEMUM. (Immortelles.) 3 ft.......Pkt. 10c False Dragon Head. See Four o'clock. See Marvel of Peru.

Feverfew. See Matricaria. Forget-me-not. See Myo-

Foxglove. See Digitalis. Flax. See Linum.

Geranium Je-rā'-ne-um. Annual. 1 to 2 ft. Favor-out in summer. Spring sown seedlings bloom the

Euphorbia ("Snow-on-the-Mountain.") 2 ft. Stronggrowing foliage plant whose attraction lies in the white borders to the bright green leaves. Is most showy in poor soil. Used with tall growing plants as a light effect it is most useful. Its possibilities are great and it will well repay numerous experiments

HETEROPHYLLA. (Mexican Fire Plant or Annual Poinsetta.) Bushy plants from 2 to 3 ft. high. The dark, glossy green leaves are so arranged that they resemble the Poinsetta. This effect is heightened by small braces of brilliant red and vellow in the center. yellow in the center ...

upatorium
U-pa-to'-ri-um. Hardy ageratum.
Especially adapted for the mixed
hardy border. The different varieties vary greatly
in their appearance and height but each and every
one is worthy of a place in the garden. **Eupatorium**

Gaillardia Gā-lar'-di-a. (Blanket Flower.) Annual varieties. Showy annuals; in bloom from early Sum-

PICTA LORENZIANA. Crimson and Orange. Dou-

PICTA, single. Mixed colors _____ 4 oz. 15c; Pkt. 10c

HARDY PERENNIAL VARIETIES

The following are among the showlest and most effective hardy perennial plants, and should find a place in every hardy border. They thrive in almost any position or soil, require little or no protection and take care of themselves. If sown early they begin flowering in July, continuing a mass of bloom until frost; fine for cutting.

NEW HYBRIDS. These produce flowers of a com-bination of crimson and golden yellow colors all in one, and are strikingly beautiful..........Ptt. 15c

Plants Each 25c; Doz. \$2.50



Gaillardia-New Hybrids

CIII 4 .I (Gomphyons
Globe Amaranth Gom - fro-
CIUDE Amarantin man Annual
1 to 2 ft. One of the choicest of the Everlasting
Flowers. With clover-like heads which retain their
shape and color splendidly for the winter bouquet.
1 to 2 ft. One of the choicest of the Everlasting Flowers. With clover-like heads which retain their shape and color splendidly for the winter bouquet. ORANGE GLOBE Pkt. 15c RED, PINK AND WHITE, each Pkt. 10c
RED, PINK AND WHITE, eachPkt. 10c
######################################
Godetia Go-dē'-shi-a. Hardy, pretty annuals suitable for beds, borders, and to grow in
Godetia Go-de'-shi-a. Hardy, pretty annuals suit-
shady places. They grow rapidly and flower profusely from June until frost. Flowers of satiny texture and of delicate colors. Excellent for cut-
snady places. They grow rapidly and nower pro-
toyture and of delicate colors. Excellent for cut
flowers.
MIXED
Gourds Quick-growing vines; excellent for covering arbors, walls, and waste places. Gourds grow in very curi- are used for house ornaments.
TOTIFOS covering arbors, walls, and waste
places. Gourds grow in very curi-
ous shapes, and are used for house ornaments.
APPLE Pkt. 10c
APPLE Pkt. 10c BOTTLE Pkt. 10c CALABASH OR PIPE GOURD Pkt. 10c
CALABASH OR PIPE GOURD PRt. 10c
DIPPER. Always useful Pkt. 10c
DISH CLOTH. Like a sponge
Pkt. 10c
MONKEY Pkt. 10c
MONKEY Pkt. 10c NEST EGG. May be used for such Pkt. 10c
PEAR Dut 10c
SUGAR TROUGH. For buckets Pkt. 10c
MIXED
SUGAR TROUGH. For buckets ½ oz. 20c; Pkt. 10c MIXED ½ oz. 20c; Pkt. 10c GRASSES, ORNAMENTAL. Here is a feature of the garden which does not seem to be receiving
the garden which does not seem to be receiving
the attention which it richly deserves. Few things relieve a sense of stiffness in the border as a clump or two of Pampas Grass with its long,
relieve a sense of stiffness in the border as a
clump or two of l'ampas Grass with its long,
graceful leaves and silvery white plumes. The "Cloud Grass" gives an airy lightness to a group
of brilliantly colored flowering plants. The gar-
den pool and the low bird bath surrounded by
low-growing feathery grasses with an occasional
bunch of Lobelia. Myosotis or Violas is good to
bunch of Lobelia, Myosotis or Violas is good to look upon. The smaller, more delicate grasses are
in demand for winter bouquets. Cut with long stems while the heads are still young. Bind the stalks together with a rubber band and hang them
stems while the heads are still young. Bind the
stalks together with a rubber band and hang them
neads down in a dry, dark place.
AGROSTIS NEBULOSA Pkt. 10c

Maxima S. Mixed BRIZA. PAMPAS. PENNISETUM. Gypsophila Jip-sŏf'-i-la. (Baby's Breath) Annual. abundance in loose panicles. Excellent for their delicate effect in bouquets.

ELEGANS GRANDIFLORA ALBA. Pure white tiny flowers, annual Pkt. 10c
ELEGANS GRANDIFLORA ROSEA. Soft pink annual Pkt. 10c

Pkt. 25c Helenium Hel-ē'-ni-um. (Sneezeweed.) Perennial June to Sept.

RIVERTON GEM. 3 ft. A variety with brilliant flowers which, on opening, are old-gold, changing as they mature to a wall-flower-red........Pkt. 10c Plants 35c Each; Doz. \$3.50

Helianthus He-li-ăn'-thus (Sunflower.)
Annual. 3 to 6 ft. June till
frost. Of easiest culture.
Suitable for backgrounds, screens, and to plant
among shrubbery. In bloom from June until frost. MULTIFLORUS. Forms a dwarf plant. Each branch carries double golden yellow flowers...........Pkt. 10c

GLOBOSUS FISTULOSUS. 6 ft. tall. Double saf-fron Pkt. 10c DOUBLE CHRYSANTHEMUM-FLOWERED Pkt. 10c

Heichrysum

| He-li(or Hel-) kri'-sum (Ever-lasting) Annual lasting. Annual 2 ft. Of late called "Strawflowers" and we find much demand for seed. We have secured additional colors, making -n



Helichrysum

excellent mixture. Helichrysum is one of the best flowers to dry for house decorating. Gather before the blooms expand and hang heads downwards in cool place. Sow seed about 1/4 inch deep and thin cool place. Sow seed about ¼ inch deep out the seedlings to stand 10 inches apart.

WHITEPkt.	10c	SALMONPkt.	
SCARLETPkt.		ROSEPkt.	
YELLOWPkt.		PURPLEPkt.	
CRIMSONPkt.	10c	MIXED COLORS Pkt.	10c

Heliotrope Hē'-lio-trope. Annual. 2 ft. Excellent for bedding; very fragrant; flowers of a well-known and exquisite color. Graceful in habit of growth and valuable color. Gra-for cutting.

Hi-biscus Hi-bis'-kus. (Marshmallow.) Perennial. 3 ft. August to October. Showy ornamental plants, for mixed beds or shrubbery borders having large sized, beautifully colored flowers; blooms the first year if sown early. Sow seed ½-inch deep and transplant to 2 feet apart. ...Pkt. 10c MIXED COLORS

Plants, each 35c; Doz., \$3.50.

"Frequently the question is asked, why are my flowers so small or of such poor habit of growth. Occasionally this question may be truthfully answered with the reply that inferior seed has been purchased. Hence the admonition, buy the best seed obtainable."

barnard's flower seeds are selected with greatest care from the best obtainable strains. We take special pains to send out those of highest quality only. Our list has undergone a thorough revision, and we believe now embraces only the choicest types in their respective classes. We sell every variety by the packet; some popular sorts are offered by weight as well. "Buy good seed. Good breeding in flowers is as important as good breeding in livestock."—Hottes' "A Little Book of Perennials."

When browsing over a catalogue it is better to mark a package of seed each of several good colors of the flowers you want than several packets of the mixed varieties. The clear colors are usually better selected. Those who like mixtures should sow together the colors they prefer.



Hollyhock

Biennial. 6 to 8 ft.
Hollyhocks make a
fine row in a garden.
a fine background
next to a building, or high wall or fence. The
double varieties are the most desirable, but the
newer, semi-double, fringed types are also very
popular. Seeds of the double varieties sown before
mid-summer will insure fine plants the following
season. Sow the seed ½-inch deep.
Hollyhocks need a rich, well cultivated soil. If
troubled with rust, spray freely with Bordeaux
Mixture. Water liberally during dry, hot weather.
Sow fresh seed every year and pull up two year
old plants in the spring. May be used for cut
flowers if the ends are charred over a flame as
soon as cut.

DOUBLE HOLLYHOCKS
WHITE.

SALMON.

YELLOW.

SALMON. PINK. YELLOW.

Kenilworth Ivy (Linaria Cymbalaria.) Peren-nial. A choice little vine of trailing habit. Most desirable for hanging baskets and vases, as well as edging for porch and window

Humulus Hū'-mu-lus. (Japanese Hop.) Annual 12 ft. A vine of easy growth; attractive foliage. Excellent for screen purposes and is absolutely reliable.

JAPONICA. A good green. The most vigorous.

The most vigorous. Pkt. 10c VARIEGATUS. Variegated foliage...... Hunnemania—see Bush Eschscholzia. Hyacinth Bean—see Dolichos. -see Candytuft.

Iceplant 6 in. Tender annual of drooping habit.
Useful in baskets and vases. Has
peculiar leaves covered with small pustules.
CRYSTALLINUM. Fine for pots Pkt. 10c

Impatiens Im-pā'-shi-ons. (Zanzibar Bal-sam.) Annual. 1 ft. Valuable for pot culture as well as bedding. The delicate flowers are very pretty and constantly in bloom.

HOSTIL Vermilion Pkt. 15c
SULTANI. Bright rose Pkt. 15c
SULTANI HYBRIDA, MIXED Pkt. 15c

Ip-(or I-po)mē'-a (Morning Glory)
Beautiful twining plants. Fine
for outdoor or greenhouse culture.
The seeds of most varieties are slow to germinate.
They should be soaked in hot water two or three
hours before planting.
GRANDIFLORA ALBA (White Moonflower). Pkt. 100
PINK FLOWERED (Mark)

hours before planting.
GRANDIFLORA ALBA (White Moonflower)...Pkt. 100
PINK FLOWERED (Hybrid Moonflower)....Pkt. 100
BONA NOX, blue (Evening Glory)....Pkt. 100
BONA NOX, blue (Evening Glory)....Pkt. 100
SETOSA (Brazilian Morning Glory). Flowers of pleasing rose-color, borne very freely in large clusters from August to frost. As a quickgrowing vine it has no equal....Pkt. 100
For other varieties Ipomoeas, see Cypress Vine, Convolvulus, Cardinal Climber and Moonflower.

Job's Tears
Annual. 2 ft. Broad, corn-like leaves and hard, shiny seeds, which are sometimes strung and used like beads.

oz., 15c; Pkt. 10c

Kochia

Kō'-ki-a. (Summer Cypress.) Annual. 2 or 3 ft. Makes a pyramidal-shaped cypress-like bush with feathery, light green foliage, deepening until it becomes a lovely crimson hue about September. CHILDSI. Excellent for hedges along garden walks.

Pkt. 10c

Lathyrus Lāth'-e-rus. (Hardy Sweet Pea.)
These are useful for covering walls,
stumps or trellises. The large clusters of flowers
are not fragrant like ordinary Sweet Peas. The
plants will live for years. Fine for cut flowers
LATIPOLIUS, white Pkt. 10e

are not fragrant like ordinary Sweet Peas. The lants will live for years. Fine for cut flowers.

LATIFOLIUS, white Pht. 10c
LATIFOLIUS, red Pht. 10c
LATIFOLIUS, Pink Beauty, white and pink Ptt. 10c
LATIFOLIUS, finest mixed Pht. 10c
Lavandula La-văn'-du-la. (English Lavender.)
Perennial. 1½ to 3 ft. July through
September. The dried flowers of Lavender are
generally in small bags which are placed in the
linen closet. The young plants require some extra
care as they grow rather slowly and must be kept
shaded and watered until they are well established.
VERA. Rich violet color Pht. 10c
Linum Hower may be found in either scarlet or
blue. The foliage is negligible, therefore, sow with
Alyssum, Aquilegia or Candytuft. The blue Linum,
three feet, will be lovely with Pink, White or Rose
Antirrhinums. Very easily grown from seed. Make
successive sowings throughout the season.
GRANDIFLORUM BUBRUM. Scarlet.

Pht. 10c

PERENNE. Perennial. White and blue.

Annual, 18 to 30 in.
These include the Rocket and Hyacinthflowered with their
or candelabra habit. Sow seed 4/-inch deep as
early in spring as possible where they are to bloom.
Thin out plants to 12 inches apart. Plant little
groups in the garden, making attractive spots of
color all through the summer and fall. Fine for
cutting. Grows easily from seed. Unless soil is
very rich, do not set plants too far apart. Bloom
best in rather cool, moist soil, but do well anywhere.

BERANCHING BRIGHT ROSE

Pkt. 10c

best in rather cool, moist soil, but do well anywhere.
BRANCHING BRIGHT ROSE Pkt. 10c
BRANCHING SKY BLUE Pkt. 10c
BRANCHING DARK BLUE Pkt. 10c
BRANCHING PINK Pkt. 10c
BRANCHING WHITE Pkt. 10c
BRANCHING LUSTROUS CARMINE Pkt. 10c
BRANCHING, mixed 14 0z., 15c; Pkt. 10c
GIANT HYACINTH PLOWERED. A superb class
bearing flowers of beautiful colors.

Mixed 4 0z., 15c; Pkt. 10c

PERENNIAL LARKSPURS-see Delphinium.

Lobelia Lo-bē'-li-a. Useful for edgings and bedding; some of the varieties are desirable for vases and hanging baskets.

ANNUAL VARIETIES

CRYSTAL PALACE COMPACTA. Deep blue... Pkt. 10c SPECIOSA. Blue; trailing Pkt. 10c
BEDDING QUEEN. Dwarf; purple with white eye.
Pkt. 10c BARNARD'S PERPETUAL. Ultramarine blue; white eye. Pkt. 10c
WHITE GEM. Dwarf. Pkt. 10c
SAPPHIRE. Rich blue, white eye. Pkt. 15c
LOBELIA MIXED ½ oz., 15c; Pkt. 10c

PERENNIAL VARIETIES

QUEEN VICTORIA. Dark bronzy foliage; scarlet flowers ______Pkt. 10c CARDINALIS. Scarlet, 3 feet

Lupinus Lu-pī'-nus. (Lupine.) Attractive in the garden but most desirable for cut flowers, the long, graceful flower spikes lending themselves remarkably well to the present day fashion of flower arrangement. Keep the flowers cut and more will develop. Easily and quickly grown. Sow seed in permanent location. Does best in rather poor soil. Water well during hot weather. Do not disturb the plants after they are once established. Lupinus are impatient of lime in the soil. Combine with Japanese Iris, which needs the same kind of soil.

Lunaria
Lu-nā'-ri-a. (Honesty.) Annual. 1 to 2 ft. Biennial. Treat as an annual. An old favorite revived. Not so much grown for its flowers as for its seed pods. These are large, flat and silvery white. Increasingly used for winter bouquets. Crimson and white, each...........Pkt. 10c

Lychnis Lik'-nis (Campion.) Perennial. 2 to 3 ft. July to August.

CHALCEDONICA (Maltese Cross). Brilliant scarlet; stalks become bare and need low-growing plants in front. Aquilegia, Chrysantha or tall white Plants 25c each; Doz. \$2.50

Marvel of Peru

(Four Annual. 2 ft. The earliest light of fragrant bloom, white pink and yellow. After a few hours the flowers close and do not open again until four in the afternoon. Although this may seem a disadvantage it is offset by the attractive foliage of dark green. The plants set rather close together; 12 to 18 inches; make a perfect little hedge which is useful in dividing beds of flowers or screen for plants that are inclined to grow leggy. Sow seed thinly where they are to grow, as soon as danger from frost is over. O'Clock.)

TALL, Red, yellow, mixed Each, pr., 20c; Pkt. 10c DWARF. Mixed Os., 250; Pkt. 100



African Marigold

Marigold

(Tagetes Ta-jē'-tēz) 2 to 3 ft. Blooming constantly through the hottest summer months, the Marigold with the spring. Plants branch freely. Set 10-12 inches apart. Foliage is a good green, adapting itself admirably to borders.

Tagetes Orange Prince and Ageratum Mex. combine exceptionally well for borders.

Tagetes Sig. Pumila is an attractive, shrubby little plant growing about 10-inches high with fernlike foliage and small clean-cut golden yellow flowers. For low-growing borders try combining with Ageratum Mex., Mignonette, Bachelor's Buttons or any other loose-growing low plant of a color that combines well with yellow. Avoid planting closely, which gives an appearance of too great solidity to the border.

DOUBLE AFRICAN VARIETIES

The African Marigolds produce very large flowers a tall stems. Plant them in borders or among shrubbery.

EL DORADO. Imbricated; orange, yellow Pkt. 100 LEMON QUEEN. Soft, lemon yellow flowers

PRINCE OF ORANGE. Orange-gold tints Pkt. 10c

DWARF FRENCH MARIGOLDS

LEGION OF HONOR. Single, golden blotched, crimson. yellow, Pkt. 100 DWARF GOLD STRIPED. Very double. Chestnut brown, striped yellow.......Pkt. 10c TAGETUS SIGNATA PUMILA, DWARF YELLOW. ... Pkt. 100

Mathiola Bicornus (Evening Sweet Scented Pkt., 10c

Mat-ri-kā'-ri-a (Double Feverfew.) Perennial. 18 in. Matricaria

CAPENSIS. Blooms first year from seed if sown early. A fine bedding or pot plant, bearing white flowers in profusion______Pkt. 100 GOLDEN BALL. Same as above, only yellow______Pkt. 100

Maurandia Ma-răn'-di-a. Annual. Climbers with slender vines and neat, pretty flowers. Especially adapted to hanging baskets and window boxes. Mixed Pkt. 10c



Mignonette Machet

Mignonette
Min-yun-et'. Annual 12
to 18 in. If successive
sowings are made, its fradoors until November. Sow outdoors in rows about
April 1, and again regularly at intervals of about
three weeks till August. Thin the plants to about
10 inches apart.

ALLEN'S DEFIANCE. Grown under favorable conditions, this variety makes spikes a foot long, and
the individual florets are not only very large, but
delightfully fragrant Pkt. 10c

GABRIELE. Red flowers; desirable in gardens
Pkt. 10c

MACHET. One of the best of the family. Of dwarf habit with very large red flowers and handsome foliage. Pkt. 10c
GOLIATH. Rich green foliage; giant trusses of red flowers on strong stems. Pkt. 10c
GOLDEN MACHET. A distinct strain with golden yellow flowers Pkt. 10c
LARGE FLOWERING, MIXED. Oz., 20c; Pkt., 10c
Milkweed—see Asclepias. Pkt. 10c

Mimosa mi-mō'-sa or mī-mō'-sa. Pudica. (Sensitive Plant.) Annual. 18 in. Its fern-like leaves are extremely irritable, closing and dropping when touched Pkt. 10c

Monarda Mo-nar'-da. Didyma (Bee Balm.)
Perennial 2 ft. Rather a coarse plant, and inclined to crowd in the garden, but if one has ever seen a group of glowing red Monarda in the summer, well set off with green shrubbery, it will surely be desired.

Plants each, 25c; Doz., \$2.50; Pkt., 25c
Monk's Hood—see Aconitum.
Morning Glory—see Convolvulus.
Mourning Bride—see Scabiosa.
Mullein Pink—see Agrostemma.

Pkt. 15c. OBUSTA GRANDIFLORA. Pyramidal Large blue flowers with yellow eye....... ROBUSTA

Pkt. 100 Pkt. 150 PALUSTRIS. Perennial variety. Pkt. 150
SEMPERPLORENS. All summer bloomer; dark
blue flowers Pkt. 10c

Rich blue, very early DISSITIFLORA. Mixed Pkt. 100;

Mimulus Mim'-u-lus. Annual.

TIGRINUS. (Monkey Flower.) 1 ft. Large flowers of various shades of yellow, splashed and dotted with Pkt. 10c

Nemesia Half-hardy annual, 12 in. Very beautiors: Fine for borders or pot culture.

Nana Compacta Mixed.

Pkt. 10c

(Baby Eyes) Hardy annual, 6 in. An excellent border or pot plant. Sow Nemophila

out of doors. Insignis Blue.

Nicotiana
great help in giving green and a fragrance to the midsummer garden. Affinis or Sylvestris are most desirable to combine with other flowers because they are white. Hybrids do well for massing together. Use it as a background against the back fence or a garage. Plant in front of and between shrubbery. Mix seed with sand before sowing. Plant early indoors or outdoors after settled warm weather. weather.

AFFINIS. Flowers white, tubular, Cobloomer. Blossoms open toward evening. Pkt. 10c

AFFINIS HYBRIDS. A colection of beautiful colors. .

SANDERAE HYBRIDS. Soft rose or violet .. Pkt. 10c

Nigella Ni-(gĕl'-or-jĕl')-a. Annual. 12 to 15 in. Of easiest culture with attractive fernlike foliage. Useful for cutting. Gives airy, light effect. Seed pods are ornamental. Gives airy, light

MISS JECKYLL. Especially fine for cutting. Bright blue _____Pkt. 10c

MIXED. Blue and white._____Pkt. 10c

ORANGE DAISY. See Dimorphotheca.

Delphinium

Delphinium

If the gardener has grown her own seedlings the previous year, they may be transplanted quite early in the spring to their permanent quarters.

These young plants for this year will make an attractive feature placed in front of a group of later, taller Delphiniums, or they may be set at once in groups where they are to remain permanently. In this case, give ample room for development. The foliage in itself, makes a beautiful setting for the tall spikes of lovely blue flowers, and each plant should have allotted to it at least 2 or 2½ feet of space.

This leaves a spot in the garden which is rather bare while the plants are small, but a ground covering such as Phlox Divaracata, will help solve this problem admirably.

Delphiniums delight in a deeply dug, highly fertilized soil. A carefully prepared bed will well repay by more vigorous plants and more beautiful flowers.

Begin to stake early and make sure that the supports are stout and driven deep. A strong wind is liable to blow down a heavily laden stalk unless it is securely anchored.

As soon as the plants begin to bloom in June or July, water well. Plenty of water, frequent cultivation and generous feeding are absolutely essential to the best development of the flowers.

Early sown seedlings will, if kept growing thriftily, probably bloom the first year in the fall. The second year they will be very good, but the third year they will be in their full glory.

After the third year take up the plants, thoroughly dig and enrich the ground, divide and reset each part of the clump by itself.

When the garden is put in order for winter, cut the plants down to the ground, and cover the crowns with wood or coal ashes to keep away injurious insects. Blight is a most common enemy of the Delphinium, but if the plants are kept growing rapidly and healthily this trouble does not seem to gain a foothold. The disease is known by curling leaves or flowers showing dark mottled spots. Drastic measures must be taken at once when this is discovered. Cut the plant to

Nas-têr'-shi-um.
Tall, or climbing varieties. Luxurious climbers for sightly railings and to trail over rough ground with fine effect. The seedpods can be gathered while green and are fine for mixed pickles.

Nas-têr'-shi-um.
Tall, or climbing varieties. Luxurious

BARNARD'S "ROYAL MIXTURE" TALL NASTURTIUMS. A gorgeous mixture. It contains all the
new Giant Flowering kinds. A diversity of rich
colors and new and striking combinations are
found in this mixture. A row in full bloom is
truly gorgeous; containing every shade and tint of
yellow, rose, scarlet, orange, carmine, violet,
purple, lemon, bronze, maroon, ruby, cream and
pink, both in solid colors and mottled and striped
in many ways.

oz., 15c; ¼ 1b., 40c; ½ 1b., 75c; 1b., \$1.40; Pkt. 10c

TALL NASTURTIUMS, Mixed.......Oz., 10c; ½ 1b., 30c; ½ 1b., 55c; 1b., \$1.00

HYBRIDS OF MD. GUNTER. The flowers include shades seen in no other class.....Oz., 15c; Pkt. 10c LOBBIANUM. Mixed colorsOz., 15c; Pkt. 10c

TALL, NAMED VARIETIES

ATROPURPUREUM. Crimson, velvety. CHAMELEON. Crimson, yellow, etc. COCCINEUM. Bright orange, scarlet. HEINMANNI. Pale brown or chocolate. KING THEODORE. Dark foliage; crimson. PEARL. Lemon, nearly white. SCHILLINGI. Yellow, blotched maroon. SUNLIGHT. Very large, rich golden yellow. VON MOLTKE. Ruby rose. Price, each _ Oz., 15c: Pkt. 10c

DWARF OR TOM THUMB NASTURTIUMS

DWARF OR TOM THUMB NASTURTIUMS
BARNARD'S "ROYAL MIXTURE" DWARF
NASTURTIUMS. Will give a larger variety of
colors in even proportions than any other Nasturtium mixture, for it is put up by ourselves from
named sorts, and also contains a large share of
the Lilliput Nasturtium and the dwarf Chameleon,
which have the richest and most varied combination of colors ever produced.
Oz., 20c; ¼ 1b., 45c; ½ 1b., 75c; 1b., \$1.40; Pkt. 10c
DWARF NASTURTIUMS. Mixed

NASTURTIUMS, DWARF, NAMED VARIETIES

AURORA. Chrome yellow.

BEAUTY. Scarlet, splashed with canary yellow.

CHAMELEON. Variegated flowers.

CLOTH OF GOLD. Golden foliage. CRYSTAL PALACE GEM. Sulphur spotted maroon.

EMPRESS OF INDIA. Crimson.

GENERAL JACQUEMINOT. Crimson.

GOLDEN KING. Orange yellow.

KING OF TOM THUMB. Scarlet.

KING THEODORE. Velvety crimson.

LADY BIRD. Orange yellow. PEARL. Straw color. PRINCE HENRY. Pale yellow, spotted. RUBY KING. Light ruby red. ROSE. SCARLET. YELLOW.

Price, each _____Oz., 20c; Pkt. 10c



Barnard's Royal Nasturtiums

WINDOW AND PORCH BOXES FOR THE CITY HOME

The soil from under the sod in a vacant lot is usually very good for this purpose. Let the boxes be at least 6 inches deep. Fill in an inch layer of small stones or broken flower pots. Upon this layer of drainage material place several good sized lumps of charcoal, for sour soil will often do more harm than a sooty atmosphere. Dust and grime are foes that must be dealt with, but they are easily routed by frequent sprinkling, using a small hand sprayer. To a quart of luke warm water add 1 tablespoonful of liquid ammonia. Let this sprinkling be done after the sun has gone. Do not allow soil to become soggy.

Some of the following plants may be started quite satisfactorily from seed:

Sweet Alyssium (Maritimum), Nasturtium, Cobea Scandens, Kenilworth Ivy, Thunbergia, Maurandia (Oxalis), and Morning Glory.

These are all climbers, but by pinching back frequently may be found most adaptable to use with potted plants, such as Geraniums, Petunias, Begonias, Ferns, English Ivy, and Ivy Geraniums. The Japanese morning-glory is very beautiful for boxes, grown as it is by the Japanese. When about to its fourth set of leaves begin to pinch back. This will make it bushy instead of climbing. The foliage and flowers are both very lovely.

Portulaca (the double varieties), is exceptionally adapted for boxes, especially where it is very sunny. It stands both heat and drought remarkably well.

If the box is protected from strong winds and sun. The tuberous rooted Begonia grows well. Combined with ferns it makes an unusually lovely box.

Boxes in windows protected by awnings are especially fortunate. A delightful article entitled "The Face Your House Shows to the World," by Amelia Leavitt Hill, is found in Good Housekeeping, May, '23.

"Why do we see so few fine window boxes?" I asked the old gardener. "Cause after they plants their stuff they goes off and fergits it," and the gardener, who really loves his flowers, turned away with a sigh. See page 118 for self watering window boxes.



Type of Barnard's Florists Mixture

Pansies

Seed sown in shallow boxes in the house or, preferably, in a cold frame, where one is available, will produce fine seed is sown in spring out doors in a partially shaded location, the seedlings will bloom in autumn. The plants, if given a slight protection, usually come through the winter unharmed. Take care of the weakest looking seedlings, as they usually give the finest flowers.

Pansies thrive boxt.

Pansies thrive best in cool, moist soil which should be enriched by well-decayed barnyard manure or finely ground bone meal; the flowers will be much larger and possess greater substance in their petals. Where extra large blooms are desired, it is recommended to pinch off all but two or three to the plant to the plant.

PANSIES IN MIXTURE

BARNARD'S FLORISTS' MIXTURE. Our best combination of pansy seeds, and is the richest and most varied mixture possible. It produces flowers of largest size, beautiful colors, and graceful forms. A pansy bed grown from this seed will give you a grand display. It is the Best Mixture that money can buy....3 for 50c; Pkt. 20c

PSYCHE. Fine form and color. A fine blotched flower, entirely surrounded with white.....Prt. 15c

PRESIDENT CARNOT. A strikingly handsome pansy. Pure white petals each adorned with silvery margin. Always admired. Pkt. 15c

FAIRY QUEEN. Large sky-blue flowers with silvery margin. Always admired. Pkt. 15c

HORTENSIA. Light and dark rose-colored flowers with prominent blotches on petals. Pkt. 15c The blooms are marvelous in size, some being 4 inches in diameter; in beauty their magnificence is unsurpassed; in colorings, they are superb and incomparable. The plants make vigorous growth and bloom almost continuously, except in hot weather.

PANSY PLANTS

Late in the spring, about April 15th to June 1st, we can supply Giant Flowering Mixed Pansy Plants, strong transplanted stock in bud and bloom.

COAL BLACK. Jet black,

PURPLE. Rich and velvety.

MADAME PERRET. Lovely shades of pink and and rose.

BUGNOT. **UGNOT.** Large, round flowers, with shadings of colors not found in other pansies.

CASSIER. Three to five spotted; showy.

PARISIAN. Flowers beautifully blotched; compact. TRIMARDEAU. Mixed; marked with three blotches lower petals

AURICULAFLORA. Dark and handsome.

EMPEROR. Navy blue; purple eye.

LORD BEACONSFIELD. Upper petals lavender. lower deep purple. A beauty.

SNOWFLAKE. Pure white.

SPOTTED WHITE. Has dark-blue blotches. STRIPED.

YELLOW. Dark center; yellow edge.

YELLOW GEM. Clear yellow. VIOLET BLUE. A lovely pansy; large.

Any of the above Pansies...Pkt. 15c

"Buy good seed. Good breeding in flowers is as important as good breeding in livestock." -Hottes' "A Little Book of Perennials.

SOIL FOR THE GROWING OF ANNUALS

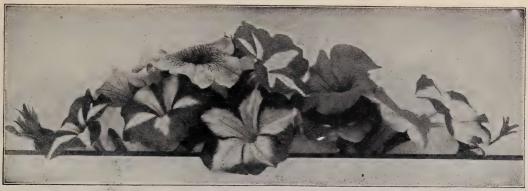
Soil for the growing of annual plants needs to be well supplied with available plant food and should be reasonably retentive of moisture, though well drained. They make a quick growth, and therefore must be provided with the best growing conditions.

A subsoil taken from the bottom of a cellar in excavating for a house is not suitable material upon which to depend as a satisfactory foundation for a flower bed. If the soil is thin and poor, a bed 2 feet deep can be excavated and filled with soil specially prepared for the plants it is intended to grow. More clay may be used for plants requiring heavy soil and more sand and leaf mold in the soil for plants requiring lighter soils.

Where good garden soil is available, probably the more common practice is to make the bed of suitable depth and fill with this soil well enriched with rotted manure.

The prepared cow and sheep manure can be used at a rate of 1 pound for 3 square feet, and the cottonseed meal and bone meal at a rate of 1 pound for 5 square feet. All these materials should be thoroughly worked into the soil. They will not bring satisfactory results, however, unless the ground is reasonably good to start with, especially as to texture.

FARMERS' BULLETIN 1171 UNITED STATES DEPARTMENT OF AGRICULTURE



Single Bedding Petunias, the most satisfactory bedding plants known.

Petunia Pe-tū'-ni-a or Pe-tū'-ni-a. Annual. 1 to 1½ ft. No bedding plants make a more pleasing display than Petunias. The displants make a strong growth and bloom profusely until after hard frosts.

To facilitate sowing the seed is mixed with sand or fine, dry earth. Be sure the soil is finely pulverized for at least an inch on top of the ground. Scatter the mixture of seed and sand, barely pressing it into the moist soil with a small, smooth board. Be careful that the earth does not become dry during germination of seed, although careless watering often washes out the seed, it is so fine. It is an advantage to sow seed early in shallow boxes in the house, hotbed or cold frame, for window or porch boxes, vases and baskets, also for early flowering in the garden. Set plants 12 to 18 inches apart. The Petunia loves a rich soil and thrives best in a sunny location. During the hot days of summer a mulch of fine lawn clippings helps to conserve the moisture. Pinch back freely. This causes the plants to branch out and spread, shading the ground. Keep the fading flowers clipped.



Barnard's "Mammoth" Single

Ruffled Giants Flowers of extraordinary size and substance, and distinguished from the large flowering fringed section by the deep fluting, giving the appearance as if artificially ruffled. Pkt. 25c

GIANTS OF CALIFORNIA. This strain, originating in California, is of incomparable size, luxuriance and beauty. Nearly all the flowers are ruffled or fringed, and measure from 4 to 5 inches across. The great variety of colors, blotchings, stripings and veinings make fantastic and beautiful combinations — some with deep throats of yellow, white, black, green or maroon, running off into intricate veins. Some of the colors run to delicate shades, while others are deep, rich and gorgeous single flowered.

Pkt. 20c

shades, while others are deep, rich and gorgeous single flowered Pkt. 20c

SINGLE LARGE FLOWERING. Barnard's "Mammoth" Single. This mixture includes, besides the Ruffled and California Giants, all the colors of the large flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicate veined throats in various colors and truly mammoth flowers.

Pkt. 25c

Double Large-Flowering Petunias

It is well known that seed saved from the most carefully hybridized flowers produce but a small percentage of double flowers, the balance being single of unusually fine quality. The weaker seedlings should be carefully saved, as these invariably produce the finest double flowers. The same is true of the single sorts, the large, strong seedlings usually being weedy, while at first, weaker seedlings produce the very finest flowers, of best colorings.

Single Bedding Petunias

BLOTCHED AND STRIPED. Pkt., 10c
SNOWBALL. White; dwarf. Pkt. 10c
ADONIS. Height and habit like Snowball. Carmine
with white throat; dwarf. Pkt., 10c
GENERAL DODD. Blood red. Pkt. 10c
ROSE OF HEAVEN. Bright rose Pkt. 15c
VIOLACEA. Violet-blue Pkt. 10c
FINE MIXED % oz., 20c; Pkt., 10c Balcony Petunias A later and very beautifur more erect than the ordinary variety and the flowers are large and fine.

BALCONY BLUE. A rich, velvety, indigo blue ... BALCONY ROSE. Flowers of a brilliant rose-pink
Pkt. 15c

BALCONY WHITE. Pure white form of this type
Pkt. 15c
BALCONY CRIMSON Pkt. 15c
BALCONY QUEEN. A charming variety. Violet
and white

BALCONY MIXED



Barnard's "Giant" Annual Phloxes

Phlox-Annual Flox. 1 to 2 ft. Annual varieties.

The annual Phloxes are dazzling in effect, par-ticularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow annual Phloxes are dazzling in effect, contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. For pot culture, and as an undergrowth for tall, bare-stemmed plants they are also valuable. The first sowing should be made as soon as the frost is out of the ground in spring, later ones in May, either where the plants are to bloom, or in a seed-bed, as the Phlox transplants readily; it is said to benefit by it. The taller kinds may be set 1 ft. apart, the dwarf varieties 6 to 8 in. Mildew is apt to attack the plants if set too close. Clipping the old heads of flowers induces branching, making the plants more compact and bushy, giving more flowers and a longer season of bloom.

Varieties Select Large - Flowering (PHLOX DRUMMONDI, GRANDIFLORA.) SCARLET. CHAMOIS RO CARMINE, WELLOW. A soft, harmonizing variety. CHAMOIS ROSE. CARMINE, white eye.

Dwarf Phlox A type combining the size of the finest Grandifloras, but of dwarf, compact growth, a perfect combination; and while they do not come in the large variety of colors found in the taller growing type, the colors offered will be found very effective for beds, borders, etc.: 8 inches.

SNOWBALL BLUSH ROSE.

FIREBALL, SCAPLE. ROSE

MIXED Each, Pkt. 10c

Star Phlox (Phlox Cuspidata.) The center of each petal runs out to a point beyond the edge, which gives the flowers a regular star-like form. Plant of compact habit, bearing star-like large un ike form. Plant umbels of flowers. Mixed colors

PERENNIAL PHLOX. (Phlox Decussata.) Hardy herbaceous perennial and quite distinct from the varieties of Phlox Drummondi offered above, which are annuals. For best results should be sown as soon as frost is out of the ground in spring or as soon as gathered in autumn. The seed we send out has been saved from our own collection and is supplied in mixture only.

Mixed Hardy Phlox Pkt. 150

Passiflora
Coerulea. (Passion Flower.) 10 ft.
Rapid growing climber, suitable for
conservatories;
in the South. Rich foliage and sky-blue flower.
Pkt. 20c

Pen-i-sē'-tum. (Fountain Pennisetum Grass.)

LONGISTYLUM.

mental grass with drooping heads. Good for Pkt. 10c.

Pkt. 10c.

Pentstemon
Pen-ster-mon. Perennial 3 ft. Ornamental plants which make a season if sown early. They bloom from June until late in the fall. The half-pendant, bell-shaped flowers show beautiful shades and markings of scarlet, pink, white and blue.

HARTWEGI

HARTWEGH HYBRIDS. An improved strain producing very large flowers borne upon long stems.

Mixed colors Pkt. 15c
PENTSTEMON MIXED, all colors. Pkt. 10c
Plants each, 25c; Doz., \$2.50

Physostegia Fi-sō-sté-ji-a. Virginica. (False Dragon Head.) One of the prettiest hardy perennials, and gaining in popularity as it becomes better known. It forms dense bushes, 3 to 4 feet high, bearing freely during the summer months spikes of delicate Rosy Lilac or white tubular flowers not unlike a gigantic heather. The Rosy Lilac is the most vigorous and the best to grow. Euphorbia variagata makes a fine border for a clump of Physostegia.

ROSY LILAC Pkt. 10c

Plants each, 25c; Doz., \$2.50

Perilla pē-ril'-a or pe-ril'-a. (Beefsteak Plant.)
with broad notched leaves. They are used as background to geraniums and other bedding plants.
ATRO LACINIATIS. Deep mulberry foliage, edges finely cut

MACROPHYLLA. Dwarfer than the above ...

Physalis fis'-a-lis Francheti. (Chinese Lantern Plant.) Perennial. 2 ft. Treat as annual and it will form fruits the first season. Flowers yellow, followed by scarlet fruit enclosed in balloonlike capsules; showy and handsome......Pkt. 10c

Polyanthus pol-i-ăn'-thus. (English Primrose.)
Perennial, 9 in. Showy, early spring,
free-flowering plants, fine for either pot or outdoor
culture. Cover slightly over winter.
ENGLISH MIXED. A fine grade; all colors. Pkt. 15c
POLYGONUM—Oriental. Pkt. 10c



Barnard's Special Double and Single Poppies

Portulaca

Portulaca

Portulaca

I. Like other low-growing plants, such as Alyssum, Lobelia, Ageratum and Candytuft, Portulacca serves the double purpose of a ground cover and a flowering plant. It revels in the full sun and seems not to heed a lack of moisture. For narrow borders and rockery, for the top of a retaining wall, or even between the stepping stones of the garden walk, this lovely little plant is well worth a trial. Almost any color scheme may now be carried out, for the finest, most delicate colors have been evolved from the dingy reds and yellows of the old-fashioned garden. If planting is done out of doors, one should wait until the ground is thoroughly warm. The seed germinate rather slowly at best and must not remain in the ground when it is cold. Portulacca is often sown inside early in the Spring on this account, and because it gives a longer period of bloom. Mix the small seed with twice its bulk of fine, dry earth or sand to insure even sowing. If the soil is inclined to be heavy, dig in a generous supply of sand. Barely cover the seed and press into the moist-soil with a small, smooth board. Do not allow the seed to become dry during germination. It is a wise plan to have a generous supply of seedlings of the different colors in reserve to fill up bare places in the garden which may develop as the summer advances.

SINGLE ROSE	Pkt. 10c
SINGLE SCARLET	Pkt. 10c
SINGLE WHITE	Pkt. 10c
SINGLE YELLOW	Pkt. 10c
SINGLE MIXED.	All colors 1/4 oz., 25c; Pkt. 10c
DOUBLE MIXED.	A percentage of the flowers will ouble, of the most brilliant scarte, yellow, etc 1/2 oz., 35c; Pkt. 10c
come perfectly d	ouble, of the most brilliant scar-
let, crimson, whi	te, yellow, etc % oz., 35c; Pkt. 10c

Pa- (or Pa) pa-ver, Annual Popples should be sown as early in the spring as possible where they are to rethe seed with dry sand and sow very thinly. If they come up too thickly they must be thinned out to stand 5 to 6 inches or more apart if you wish best results. best results.

Single Annual Poppies

ADMIRAL. A beautiful variety having large, smooth-edged white flowers with a broad scarlet band. KING EDWARD. Scarlet with black blotch. Pkt. 10c
GLAUCUM (Tulip Poppy.) One of the most brilliant; the flowers are 3 inches across and closely resemble the brilliant Scarlet Gesneriana Tulip; an elegant and distinct variety. Pkt. 10c
SINGLE RED, Scarlet Field Poppy. Pkt. 10c
SINGLE POPPIES, Mixed Colors. Pkt. 10c

Shirley Poppies ally semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood-red, while many are daintily edged and striped. In fact, so varied are they that scarcely any two flowers are exactly alike. WHITEPkt. 10cPkt. 10cPkt. 10cPkt. 10c ROSE PEROSE PERO .Pkt. 10c

Double Annual Poppies

Ryburgh Hybrid New Giant FloweringPkt. 15c

DOUBLE POPPIES. Mixed varieties and colors.

1/2 oz., 15c; Pkt. 10c

BARNARD'S SPECIAL MIXTURE OF DOUBLE

AND SINGLE POPPIES. Comprises not only all
the double and single Poppies described above
but also a number of other sorts especially purchased for this mixture, including some entirely
new ones. 1/2 oz., 20c; Pkt. 10c

Hardy Perennial Poppies
Oriental Poppies should be sown in early Spring in the open ground as soon as it is fit to work. The plants disappear during July and August, appearing again as soon as the weather gets cool. When this Fall growth starts is the time they should be transplanted to their permanent flowering quarters. It is well to mark the places they are planted with a stake to insure the roots against disturbance during their resting period. For permanent beds these are unequaled. Effective among shrubbery, being of tall growth, large flowered, and showy. While Tulips are yet in bloom the Oriental Poppy makes the garden glow and from soon afterwards until late autumn a succession of Poppy blooms in their brilliant colors are available for cut-flowers.

ORIENTALE (Oriental Poppy). Scarlet. Pkt. 100 ORIENTALE HYBRIDS. Flowers of immense size, 6 inches and over in diameter, and of many novel colors.

Plants each, 30c; Doz., \$3.00

Plants each, 30c; Doz., \$3.00

perennials, they flower the first year from seed, blooming almost as early as the annual sorts. They are of graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks about 12 inches high, bearing their brilliant flowers in endless profusion; most useful for cutting, for which purpose pick when in bud, and, if the seed Pods are picked off, continue in flower the entire season. They remain evergreen throughout the Winter, coming into bloom early the following Spring.

SCARLET	Pkt.	10c
WHITE	Pkt.	10e
ORANGE	Pkt.	10c
MIKED ICELAND POPPIES 1/4 oz., 30c;	Pkt.	10c

"Have no patience with bare ground and cover the borders with dwarf plants. Do not put them along the front row only. For practical intents and purposes, every six inches of ground could contain its plant so that no bare ground should obtrude on the eye. Seed pods should never be allowed to form on plants."—Robinson.

Primula

Prim'-ū-la. Annual. 6 to 18 in. The beautiful Chinese Fringed Prim roses and Obconica and spring decorations in the home or conservatory. They are one of the most important winter blooming pot plants. The seed we offer has been saved from the best strains of English and Continental growth. Sow in March, April or May. The hardy varieties are also deserving of wide cultivation.

Fringed Chinese Primroses

The flowers of Chinese Primroses are large, more or less fringed, rich in hue, and stand well above the foliage. Almost all shades of color are found, from pure white to deep crimson, and occasionally a blue one appears.

BARNARDIS

BARNARD'S MIXED. From the finest strains.

Pkt. 25c

Baby Primroses from seed and bears ender-colored flowers.

A desirable winter window plant. Blooms very quickly in great profusion small lav-

Primula Obconica

These are of the easiest culture in greenhouse or light window of dwelling house, flowering abundantly and continuously with little care, and should be sown during the spring in good porous loam. They will not germinate well in any compost containing peat or leafmold. To develop the colors to the highest degree, grow in heavy soil, and at a temperature as near 60 degrees as possible.

OBCONICA. Mixed colors_

Hardy Primulas

Pyrethrum

Pi-re'-thrum. Perennial. 2
to 3 ft. Among the many
daisy-like plants, none is
better adapted to the average garden than the
Pyrethrum. It grows easily, is perfectly hardy, and
furnishes a generous supply of flowers from May
till July. If, after this first flowering is over, the
plants are cut back sharply, mulched well through
midsummer and given a dose of fertilizer, one may
look for a fresh crop of flowers in the Fall.
Pyrethrum luxuriates in rich soil and plenty of
water, especially when in bud. It should have good
drainage and in summer after a heavy rain, the
foliage, which sometimes rots, should be cut away.

AUREUM. Annual. Is the well-known Golden
Feather so much used for edging, carpeting, etc.

Pkt. 10c

ROSEUM HYBRIDUM. Perennial. This new large-

ROSEUM HYBRIDUM. Perennial. This new large-flowering single strain is saved from a fine collection. Bears large, Daisy or Cosmos-like flowers, ranging in color from light pink to deep red, with bright yellow centers. Is one of the most graceful and lasting of the cut flowers.....Pkt. 10c

KELWAY'S SINGLE MIXED. Extra large flowering. —————Plants each, 25c; Doz., \$2.50 Pkt. 25c

Rudbeckia

Rud-běk'-i-a. (Cone Flower.)

There are several varieties of this rather coarse-grown the others. It is adapted to almost any soil and situation, but richness and cultivation improves

the best known. Flowers are quite double. The stems are rather weak, but a judicious pinching back when they reach a height of 4 or 5 ft., makes the plants more stocky and branching.

nowers.

Pit 10c
BICOLOR-SUPURBA. Annual. 2 ft. Grows in
rather dense bushes; flowers with bright yellow
stripes and brown cones.

Pit. 10c
Sand Verbena. See Abronia.



Salvia

Salvia Săl'-vi-a. (Flowering Sage.) Annual. A hedge or bed of Salvias is a blaze of color during late summer and fall.

They are used to good effect for bordering Canna beds, also for hedges along walks or lot dividing lines. Seed should be started either indoors or in a hotbed; sow about ½ in. deep; do not sow in open ground until soil has become well warmed. Transplant from 12 to 18 inches apart.

SILVER SPOT. 2 ft. Scarlet flowers; spotted Pkt. 10c

CLARA BEDMAN. 2 ft. Dwarf and compact.
Pkt. 10c

DROOPING SPIKES. 21/2 ft. Red flowers Pkt. 10c PIREBALL. 2 ft. Very compact; desirable for pots. Pkt. 15c

Salpiglossis

Sal-pi-glos'-is, Annual. 2

ft. It is an almost hopeless task to attempt a
branching and the slender stems are delicate, quite
needing a slight support. The flowers are trumpetshaped, beautifully veined and of the most exquisite
colors; blue, violet, yellow, rose and scarlet, in all
shades and tints. Unexcelled for cutting. Better
sow the seed inside early in the Spring. They are
very fine and should not be covered, but pressed
into the soil. Keep barely moist and out of the
direct rays of the sun until the young plants are
well up. Salpiglossis prefers a sandy soil which
has been well fertilized. It blooms from July until
frost. Frequent watering helps.

Pkt. 15c

ROSE, DARK SCARLET, and BROWN... Each, Pkt. 15c

Saponaria Săp-on-ā'-ri-a.

Skā-bi-ō'-sa. 12 to 18 in. This is an old favorite, and of late years has been greatly improved. The beautiful colors. An exceptional garden plant and indispensable for cutting. Sow outdoors in May. Keep the seed pods clipped and the plants will bloom much longer.

ANNUAL VARIETIES

AZURE FAIRY. Blue. If difficulty is experienced in raising the Didiscus, or Blue Lace Flower, here is a substitute that will most acceptably take its place.

SNOWBALL White.

FIERY SCARLET. GOLDEN YELLOW PURPLE.

PINK. GURDEN PURCHER ROSE. PURCHER KING. MIXED of choice Varieties... Each, per Pkt. 10c Pkt. 10c

PERENNIAL VARIETIES

CAUCASICA. Lilac-blue. 3 ft. Especially valuable for cutting, the blooms lasting an unusualy long time in water.....

Schizanthus

SkI (or Ski) zăn'-thus. (Butterfly Flower.) Annual. 1 to 2 ft. Lowgrowing, delicately branching and covered with butterfly-like flowers. When once seen is not easily forgotten. Success does not always attend the first attempt of the amateur, but an experienced grower says, "Do not be discouraged. This lovely flower is worth several attempts." Sow out of doors in May. Pinch back the main stem when 6 in. high. Is seems to develop best in a cool season. Make successive sowings through the Spring and Summer.

WISETONENSIS. Especially suitable for pot culture. The plants are covered with bloom, the ground color of which is white with a large spot on the upper lip.

MIXED COLORS. Pltt. 10c

MIXED COLORS..... Pkt. 10c varieties have beautiful MIXED COLORS.....

FRECTABILE. This variety has broad, light green foliage and large flat heads of rare pink flowers which last a long time. It blossoms in Sept. and Oct. Plants 25c; Doz., \$2.50 Sensitive Plant. See Mimosa. Shasta Daisy. See Chrysanthemum. (Perennial Varieties)

Shasta Dan Varieties.)

Smī'-lax. Annual. The most useful climber which adorns the green house tory. Pkt. 10c Smilax or conservatory. ________Spider Plant. See Cleome.

Statice

Static-i-sē. (Thrift.) Perennial Excellent for rock-garden or border but especially for drying, as it is used extensively by both amateurs and commercial flower-growers for winter bouquets and decorations. It lasts unusually well and gives a light and airy grace to any sort of combination. Sow inside in March and the plants will blossom by June. Sow outside again in May.

ANNUAL VARIETIES

RUSSIAN, Pink, 1 ft..... ..Pkt. 10c SINUATA, 21/2 ft, blue, rose, white ... Each, Pkt. 10c PERENNIAL, Latifolia, Large, spreading panicles of light-blue flowers. Pkt. 10c

Stevia Stë'-vi-a Serrata Annual 2 ft. Free-blooming plants, bearing a multitude of fragrant pure white flowers; suitable for Summer or Winter blooming; largely used for cutting; should be grown in the greenhouse for Winter blooming.

Pkt. 10c

Summer Cypress. See Kochia. Summer Fir. See Artemesia. Sunflower. See Helianthus. Thunbergia.

Sweet Rocket (Hesperis.) Perennial. 2 to 3 ft. An old-time garden favorite. Excellent to grow in a permanent border or
shrubbery. The spikes of fragrant bloom are
valuable for cutting.

WHITE, Purple, Mixed ______ Each, per Pkt. 100 Sweet Sultan. See Centaurea Imperalis.



Scabiosa-Mourning Bride

Stocks (Matthiola-Mat-thi'-o-la.) Annual Stocks last a long time in bloom, are beautiful, fragrant and satisfactory. The seed may be sown in the open ground, in the hotbed or cold-frame. If transplanted, let this be done when the plants are small just out of the seed-leaf, as they are apt to become so slender that they never make good.

Large - Flowering 10 - Week Stock

The favorite sort for bedding, Grows about 1 ft. high.

PURE WHITE Pkt. 10c BLOOD RED Pkt. 10c

LIGHT BLUE Pkt. 10c PURPLE Pkt. 10c

ROSE Pkt. 10c CANARY Pkt. 10c

CRIMSON Pkt. 10c BARNARD'S SPECIAL extra fine mixed......Pkt. 10c

Giant Perfection, or Cut-and-Come

Again

18 in. Useful for outdoor bedding as throw out numerous side branches, all bearing double, fragrant flowers.

PRINCESS ALICE, white.

COUNTY OF THE PRINCESS ALICE, white.

Winter Stocks

WHITE LADY. 20 inches; white. Throws up a central spike like that of a Tree Wallflower, branching freely and assuming a pyramidal form.

BEAUTY OF NICE STOCKS

A magnificent recently developed strain of early Summer flowering or Winter Stocks, forming much-branched plants about 2 feet high and having numerous spikes of very large, double, delightfully

ragrant flowers.

These may be sown early to bloom in summer or in July and August for later flowering. Seedlings bloom in ten weeks. Splendid for pots and cutting.

ABUNDANCE, rose.

BEAUTY STOCKS.

BEAUTY OF NICE, pinkQUEEN ALEXANDRA. CRIMSON KING. MT. BLANC.

MIXED. ... _ Each, per Pkt. 10c

Stokesia Stō-kē'-si-a. Perennial, 18 in, Plants bearing freely from July to October handsome Centaurea-like blossoms, each measuring from 4 to 5 inches across; it is of easy culture, and one of the most desirable plants for the hardy border, and also for cutting. Give full sun.

CYANEA. Light blue ____ CYANEA ALBA Pure white Pkt., 10c

SWEET PEAS

The Most Fragrant of All Sweet Peas

Youth

The color is an exquisite picotee on a pure white ground. The extremely large flowers are borne on long, stout stems measuring 16 inches or more in length. Each spray usually carries four fine blooms. The spacing of the flowers is perfect, with many stems carrying them evenly and attractively in just the right position at the top. The fragrance is like that of the orange blossom.

Pkt., 15c

Brilliant Blend
From the trial grounds of California we get a splendid mixture of Sweet Peas.
Brilliant Blend Mixture is made up of varieties which have not come true to type in the second or third generation. In blooming they are a wonderful sight, and as these are not staple varieties, you may find in your garden a variety which is new and a possible prize winner.

Pkt. 15c: Oz., 40c Pkt., 15c; Oz., 40c

"BUTTERFLY" or "ORCHID FLOWERED"

Nothing within recent years can approach in importance the introduction of the "Spencer" Sweet Peas. They are distinguished from the standard sorts by the enormous flowers with crinkled and wavy petals, and also from the fact that they usually bear four blossoms on a long, stout stem.

AMERICA. White, striped with crimson. Large, showy flower.

showy flower.

APPLE BLOSOM. Fine, bright pink and rose.
Free bloomer.

BARBARA. Lovely salmon. Blooms freely. Usually four flowers to a stem. Excellent exhibition flower.

BLUE MONARCH. Violet blue. Large wavy flowers. Very handsome.
BUTTERCUP. Lovely deep cream.
COUNTESS SPENCER. The beautifully waved petals and soft pink color make this a never-failing

ELEGANCE. The admirably chosen name describes this charming flower excellently well. The color is a blush lllac suffused with pink.

FIERY CROSS. A scorching fiery red. No shading.

FLORA NORTON. Bright blue. Large showy flowers for cutting.

flowers for cutting.

FLORENCE MORSE. Lovely combination of two

FLORENCE MORSE. Lovely combination of two shades of pink.
FLORENCE NIGHTINGALE. Soft lavender flowers of unusual size, handsomely waved and frilled.
HAWLMARK FINK. An exquisite shade of rose pink, flushed with salmon. Free flowering.
HERCULES. A choice soft rose-pink. Large flowers.
ILLUMINATOR. Mammoth rosy-pink. Very beautiful by artificial light.
JEAN IRELAND. Of the Picotee type. Creamy buff, edged with carmine.
KING EDWARD VII. Splendid crimson. Very free bloomer.

bloomer.

RING MAUVE. A gem. Largest waved mauve.

RING WHITE. No finer white, in every respect, has
ever been produced.



Crimson King

MARGARET ATLEE. Color a delicate shade of pink. A blending of salmon and rose over a creamy ground. The vines are of vigorous growth with long stems.

MARGARET FIFE. A very lovely pale sky-blue.

Each Pkt., 10c; oz., 35c

Crimson King "The greatest achievement of our years of crossing, selecting and developing Sweet Peas," says the producer.
"The color is a true ox-blood, a pure, rich crimson; Standard and wings precisely the same color. "Crimson King" is so distinct from other varieties that the passer-by quickly and easily selects it as the most attractive." The distinct "Crimson" obtains from bud to "passing off" stage. Entirely free from sunburn and windscald at all times. The strong, straight stems, 16 to 18 in. in length, stand out well and always carry three or more blooms.

Pkt., 15c

USE THE GARDEN WIRE FENCE FOR SWEET PEAS

Dig Deeply and Thoroughly a trench at least 2 feet deep and 3 feet wide, parallel with the fence. In the bottom of the trench place 6 inches of well rotted manure, over this an inch of earth and tread firmly until it is well settled. Fill to the top and level with good garden soil well freed from lumps. If manure is unavailable, fill the trench with the garden soil. Dust over with Acid Phosphate (1 pound to 5 square feet) and thoroughly incorporate into the top 3 or 4 inches. Early Planting. Do not wait for fine weather, but sow as soon as the soil can be worked. Close to the fence make a drill 2 inches deep and 6 inches wide. Place the seed in two rows, zig-zag, 6 inches apart. Cover with an inch of soil, well firmed about the seed.

A sprinkling of lime over the ground after sowing will help to eliminate trouble with the cut worms. Begin to train the young vines to the wire as soon as possible.

Cultivating, Mulching, and Watering. The young plants will need no water for the first 3 or 4 weeks, unless the soil is very dry. After the seedlings are well out of the ground keep the soil lightly stirred about them, and mulch with light, strawy stuff. Use a thin layer of lawn clippings as soon as they can be had.

Later on in the summer, unless there are frequent rains, the ground should be thoroughly soaked twice a week. Liquid fertilizer prepared from sheep manure (see page 104), should be given every two weeks after May 1st. If the plants drop their buds, it is an indication that the fertilizer is too strong. Do not wet the vines when watering.

Keep Plowers Plcked. Remember that it is something of a task to keep the flowers picked, and this must be done often to prevent seeding, which soon saps the vines of their strength, and robs the flowers of their size and beauty. Therefore, do not be too ambitious, but take this into consideration when planting the length of a row; a short row well cared for will give far more satisfaction than a long row neglected.

Thesect Pests and Other Troubles. For Aphis or Red Spid

Sweet Peas

SPENCER VARIETIES — Continued

MRS. ARNOLD HITCHCOCK. Pale cream-pink. Very delicately blended large flowers. Vines

vigorous.

OTHELLO. Rich maroon. One of the very best of the dark varieties.

PICTURE. A most charming flower. Extreme in size. The color is an exquisite flesh-pink, suffused with creamy-apricot.

R. F. FELTON. One of the best in the lavender

ROBERT SYDENHAM. Splendid. Clear, glowing orange. Strong grower.
ROSABELLE. Rose. Mammoth flower. One of the finest of this color. Blooms freely and does not

ROYAL PURPLE. Most satisfactory.

SENATOR. An odd colored sort. Chocolate-striped on white ground.
THE PRESIDENT. In color a dazzling orange-

THE PRESIDENT. In color a dazzing orange-scarlet. Strong grower.

VALENTINE. A very beautiful blush-pink flower, often measuring 2 to 2½ in. across.

WARRIOR. An extremely large flower, maroon almost black.

WEDGEWOOD. Clear, delicate blue. A distinct shade named for the celebrated Wedgewood ware.

Each, per Oz., 35c; Pkt. 10c

BARNARD'S ROYAL MIXTURE OF SPENCERS
Made up from our complete list of named
varieties, including those of recent introduction.
We have been very careful in preparing this mixture
so that each package will contain a proper proportion of color; also seeds of the choicest varieties.
Oz., 25c; ½ 1b., 75c; Pkt. 10c

WINTER-FLOWERING OR "EXTREMELY EARLY" SPENCER VARIETIES

These varieties will produce Sweet Peas fully three weeks ahead of the Summer-Flowering Spencers, When grown under glass during Fall, Winter and Spring, they will continue to flower three or four months.

WHITE. PINK. SCARLET. PINK AND WHITE. LAVENDER. PURPLE. Each, oz., 75c; Pkt. 15c

Grandiflora Varieties

Are considered easier to grow than the Spencers.
The varieties listed below are the cream of all known sorts. All inferior varieties have been discarded.

CARRED.

DOROTHY ECKFORD. White.
GOLDEN GLEAM. Cream.
KATHERINE TRACY. Soft pink.
BLANCHE FERRY. Pink and white.
MES. WILMOT. Orange pink.
KING EDWARD VII. Scarlet.
LADY GRISEL HAMILTON. Lavender.
LORD NELSON. Blue.
LOTTIE ECKFORD. Blue and white.
BLACK KNIGHT. Maroon.
AMERICA. White striped scarlet.

MRS. JOSEPH CHAMBERLAIN. White striped pink.

SENATOR. White striped chocolate.
Oz., 10c; ½ 1b., 35c; 1 1b., \$1.25
CHOICE MIXTURE OF GRANDIFLORA TYPE.
Oz., 10c; ½ 1b., 20c; 1b., 75c

A LITTLE BOOK OF ANNUALS By PROF. ALFRED C. HOTTES

For the amateur and professional. Companion book to the Little Book of Perennials.

to the Little Book of Perennials.

A reliable guide through the season of annual bloom. Among the choicest flowers scattered over the earth are some whose lives are short. They sprout from seed, grow, flower, produce seed in their turn—and then die. These are the annuals, and Prof. Hottes through his book opens the door to greater success with these charming flowers. Over 100 separate species are described with full directions for their culture and uses.

Chapters include, The Use of Annuals, Ordering Seeds, Classes of Annuals, Seed Sowing, Transplanting, Pinching, Annuals and Shade, Fall Sowing and Self-Sown Annuals and Shade, Fall Sowing and Self-Sown Annuals, Hotbeds and Coldframes, Annual Flowers and Their Uses, A Chain of Ten Links, Annuals of Merit, Ornamental Grasses, Everlastings, Decorative Seed Pods, Annual Vines, etc.

Price, paper cover, postpaid, \$1.10;

Price, paper cover, postpaid, \$1.10; cloth cover, postpaid, \$1.65.



New Sweet Pea Defiance

A fine large orange scarlet absolutely sunproof. Of vigorous habit. Pkt., 15c; oz., 75c

Silver Gilt Medal Mixture. This mixture is a beautiful blend of only the largest and brightest colored Spencers. It includes all the standard Spencers of merit and all the very latest novelties, such as Austin Frederick Improved; Mrs. Tom Jones; Picture; Valentine; Royal Scot; Renown, etc. Pkt., 15c; oz., 50c

BARNARD'S SELECTED SWEET PEAS

We could greatly extend our list, but we think it best to confine our offers to such sorts as are really first-class

NOTE: Our list of flower seeds will be found to contain all varieties of real merit. Many times varieties are listed which are of little value in the garden, and others are so difficult to grow that unless one has every facility for propagation, disappointment is sure to follow the purchase of seed. We want our seeds to give satisfaction and our selection of varieties for this catalogue has been made with the greatest care.

GARDEN GUIDE

A complete handbook for the amateur gardener 384 pages and over 275 teaching illustrations with beautiful cover in four colors.

beautiful cover in four colors.

The gem of gardening literature, Over 35,000 copies sold throughout the United States and Canada.

Garden Guide has wonderful chapters devoted to the Vegetable, Flower and Fruit Gardens, with practical layouts and planting plans.

It tells you in full about how to prepare and fertilize your ground, how to distinguish and get rid of insect pests.

All the flowers and bulbs with planting plans; the lawn, ornamental trees and shrubs, vines, water plants.

How to prune your plants the state of the state

plants.

How to prune your plants; how to propagate plants; how to construct hotbeds and forcing frames, how to spray; about tools, rustic furniture, birds of the garden, canning, Winter storage of food and plants, etc.

Covers every step from spading the ground to preserving the harvest.

Price, paper cover, postpaid, \$1.10; cloth cover, postpaid, \$1.65.

Sweet William (Dianthus barbatus.)
Biennial. 2
ft. This
source of delight in the garden of today. Because sturdy, reliable old-fashioned favorite is still a source of delight in the garden of today. Because it is a biennial, and due therefore to bloom the second year, plant it early in hotbed or a sunny window in the house. These early plants, it pushed along, will bloom the same Fall. Sow a few seeds of some new variety every year. Young plants are said to give the best flowers. Seed may be sown at any time from Spring to Midsummer. Sweet William is much more effective if placed in groups throughout the garden. The charm of the great trusses of lovely color seems to be lost when it is planted as a mixture in masses. Lends itself beautifully to the carrying out of a color scheme. It is best to give slight protection during the winter Likes warm, rich soil.

Likes warm, rich soil.

SCARLET BEAUTY. Large heads of bright scarlet flowers. Sweet William and Columbine make a low border that cannot be excelled. Single AURICULA - FLOWERED, or Hunt's Perfection. This strain is a large-flowered selection of the Auricula-Eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, and the range of color, all showing a clear, white eye, is superb. Single. Pkt. 10c

PINK BEAUTY. An exceedingly pretty variety with beautiful salmon pink flowers. Pkt. 10c

SCARLET BEAUTY. A selection out of Pink Beauty; color, intense rich deep scarlet. Pkt. 10c

NIGRESCENS. Very dark flowers. Pkt. 10c

SINGLE WHITE. Pkt. 10c

BOUBLE MIXED. This mixture you will find of

Thunbergia Thun-ber'-jI-a. (Glock Flower.)
Annual. Trailing. 4 ft. Beautiful,
rapid-growing annual trailing plants, preferring a
warm, sunny situation; used extensively in hangingbaskets, vases, etc.; very pretty flowers in buff,
white, orange, etc.; with dark eyes; mixed colors.
GIBSONI. Fine orange. Pkt. 25c
LARGE-FLOWERING. Pkt. 10c

Torenia Tō-rē'-ni-a. Annual. A splendid plant for vases, hanging-baskets, borders, etc.; covered the entire season with a mass of bloom. Sky-blue, with three spots of dark-blue, bright

Tritoma Trit'-ō-ma, or trī-tō'ma. (Torch-lily, Red-Hot-Poker.) (Standardized name Kniphofia Nifō'(or Nip-hō')-fi-a. 3 to 4 ft. A fine bedding plant if used with discretion. A clump, quite surrounded with green, at a considerable distance from any delicately colored flowers, makes a fine showing with its large spikes of orange-red. Seed which is sown early will often bloom the first year. It is, however handled as a bulbous plant. Roots should be taken up in the Fall and buried in sand over Winter, in a cool cellar. It will succed in any ordinary soil, but responds quickly to enrichment, cultivation and water......Plants, 25c; Doz. \$2.50; Pkt. 10c

Trollius Trol'--i-us-Hybridus. (Globeflower.)
Perennial. 1½ ft. Pale yellow to deep
large buttercup......Pkt. 10c

Valeriana Va-lē-ri-ā'-na. (Garden Heliotrope.) Perdelicate flowerheads are large and graceful, with a delicious spicy fragrance. Invaluable for cutting.

Plants, 25c; Doz., \$2.50; Pkt. 10c

Wallflower Perennial. 2 ft. Not adapted to a cold climate but will carry over winter in a coldframe. They will by this means, be ready for early blooming the next Spring. The Wallflower is very fragrant and of especial value as a cutflower. Give it a sheltered location.

SINGLE MIXED Pkt. 10c

DOUBLE FINEST MIXED Pkt. 15c



Sweet William

Verbena

Ver-bē'-na. Annual. One of our most trustworthy garden companions. Of trailing habit. The foliage the broad, flat flowerheads of many brilliant colors. Seedlings are vigorous as a rule and produce the best flowers, consequently, sow Verbena seed every year. Make plantings inside in February or March soaking the seed for a few hours previously. Press the seed firmly into the well prepared soil and give water sparingly. Transplant when seedlings are 1 in. high, and set outside after frost, in a warm, sunny spot. Make the ground rich and keep the young plants well cultivated. Fading flowers, if clipped, will help to keep up a constant succession of bloom until frost.

Saved from the Mammoth-Flowered Verbenas

finest specimens only.

AURICULAFLORA. WHITE. PINK. BLUE SHADES. SCARLET.

STRIPED. PIREPLY. LUCIFER. MIXED Each, per Pkt., 10c

Vinca Vin'-ka. (Perlwinkle.) Annual. 2 ft. Ornamental free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out of doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the winter; a fine cut flower, every bud opening when placed in water.

Violas

Vi-5'-las. (Tufted Pansies.) Perennial. 6 in. The plants are more hardy than Pansies, and of vigorous planted in masses or lines they form perfect mats covered with myriads of flowers from frost to frost.

BLUE PERFECTION. LUTEA SPLENDENS, Yellow.

WHITE PERFECTION.
MIXED COLORS.
Each, per Pht. 10c



Barnard's Giant-Flowering Zinnias

Zinnia Zin'-I-a. Annual. The Zinnia is one of the most brilliant, showy and satisfactory of annuals, and has long been a general favorite. The seed can be sown early in the hotbed or light window and transplanted, or sown later in the

It springs up quickly, and the young plants begin flowering early. The Zinnia can now be had in almost any tint and shade of the loveliest colors, and the flowers last a long time on the plant or when

cut

The simplest method of raising them is to sow the seed outdoors where they are to bloom, in earth prepared as for a good vegetable garden. If planted in groups drop three or four seeds in one place and thin out to stand 2 or 3 in apart if a group effect is desired.

Picotee The best description we can give this truly lovely Zinnia is to say that it resembles the Picotee Carnation in a very unusual way. Each petal is tipped with some other than the self color.

Pkt. 150

CURLED AND CRESTED. The petals of this beautiful strain are twisted, curled and creased into the most fantastic and graceful forms. The colors comprise all the brilliant shades characteristic of the Zinnia.....Pkt. 10c

TALL DOUBLE ZINNIAS Scarlet.
White, Golden Yellow.
Flesh Pink.
Orange.

Orange. Purple. Mixed.

Each, per Pkt. 10c; 3 assorted colors, 25c

TALL, DOUBLE GIANT ZINNIAS. (Improved Grandiflora Robusta.) The flowers are of enormous size, thickly set with the velvety petals. The plants are healthy, robust, vigorous growers branching freely; excellent for grouping or cutting. Will be found very superior to the ordinary Zinnia.

Crimson. Buttercup. Orange. Rose Queen.

Crimson.

Bright Scarlet. Salmon Rose. Flesh Pink. Yellow. Mixed

Each per Pkt., 15c; 3 assorted colors, 40c

DWARF DOUBLE-Mixed Splendid variety ... Pkt. 10c

LILLIPUT—12 inches. When in bloom is a mass of tiny, very double, ball-shaped flowers about 1 inch in diameter. Very bright.
Scarlet Gem. Golden Gem.

Each per Pkt. 10c.

Young Zinnia plants can be obtained in season.

Barnard's Special Strain of

Giant Dahlia Flowered Zinnias

to a fine orange-yellow

Oriole A combination of orange and gold that makes one of the most attractive flowers. It changes slightly with age, but the color is always

Has been a favorite with Zinnia-growers for some years—but is still Old Rose a popular variety Pkt. 25c

Purple Prince

A fine deep purple, large and well formed. New....Pkt. 25c

Mixture From the named varieties described pkt. 25c MIXED. All colors Pkt, 15c



Barnard's Giant Dahlia Plowered Zinnias

MISCELLANEOUS FARM SEEDS

We furnish the best that can be had anywhere. Pedigreed seed comes higher than ordinary, but the value to the planter of high-grade stocks is vastly greater. Our seed grain is grown and specially prepared for planting purposes. It is carefully selected by experienced seedmen, thoroughly cleaned, and handled only by careful employees, as a safeguard against errors in filling.

Prices subject to change without notice. Bags Extra.

Spring Wheat

(Sow from 11/4 to 11/4 bushels per acre)

Marquis. It has proven itself by many tests to be an improvement over nearly every other variety in earliness, productiveness and quality. The kernel is dark red, plump and very hard. Pk., 85c; bu., \$2.85

Blue Stem. A distinct variety from all other spring wheat. In the early stages of growth the stem has a decidedly blue cast in color which disappears as the grain ripens. The stem is of medium length, very sturdy, and free from rust. The grain is without beard, the kernel large and of the old Red Fife type. A very productive variety, and an excellent one for milling purposes.

Pk., 85c; bu., \$2.85

Seed Rye

(Sow at the rate of 1 to 11/2 bushels to the acre)

Spring Rye. This is distinct from Winter Rye. does not stool out like that variety, but the straw is equaly valuable. Spring Rye is now largely sown in the middle and Western states in place of oats. It makes a good "catch crop" where winter grain has failed.

Pk., 75c; bu. \$2.50

Write for prices in larger quantities

Winter Rye. This supplies a quick growing crop that is desirable to plow under for green manure or can be pastured and cut early in the spring. Hardy and seldom winter killed. May be sown 1½ to 2 bushels per acre.

Pk., 75c; bu., \$2.50

Seed Oats

(Sow from 2 to 3 bushels to the acre)

Big Four. This is a well-known and popular variety throughout the Central states and Northwest. It ripens early and yields abundant crop. It is a large, white oat, free from black kernels. The straw is of medium length and of a quality that stands up well on almost any kind of soil. We have a bright, heavy stock to offer.

Bu., \$1.25; 10 bu. at \$1.15; 50 bu. at \$1.10

Swedish Select. It is an early white variety, producing grain of good weight and quality. Straw is medium in height and strong. Swedish Select, on account of its vigorous root action, can be recommended for a variety of soils, doing well on nearly all. Our stock of Swedish Select Oats is northern grown in a section of the country that has proven itself especially adapted to this crop. One hundred bushels to the acre is not an uncommon yield. Oats grown in a northern latitude are more vigorous, hardier and mature earlier than stocks grown anywhere else.

Bu., \$1.25; 10 bu. at \$1.15; 50 bu. at \$1.10

Black Tartarian. They are preferred by those who have had experience with them principally on account of their superior yielding qualities, but besides being fully equal, if not better than white oats in point of feeding qualities, they possess another very valuable characteristic in the unequalled stiffness and strength of straw.

Lb., 30c, postpaid; pk., 60c; bu., \$2.00 not prepaid Special prices will be named for quantities

ood Seed Oats. Very often we have an opportunity to buy good clean northern grown oats of no special variety at a very reasonable figure. By proper cleaning these make very good seed oats. We offer in 10 bu. lots or more at 85c bu. Good Seed Oats.

Prices subject to change without notice. Bags extra.

Buckwheat

(Sow 1 bushel to the acre)

Buckwheat is not considered exhaustive to the soil. As a smothering crop, where the land contains objectional weeds, it is very desirable, and it puts the soil in admirable condition for any crop that is desired to use for rotation.

It can be sown so late as to prove a profitable second crop to follow the early peas, potatoes, etc. Good pasturage for bees.

apanese—It proves to be two weeks earlier than
Silver Hull, both being planted at the
same time. Kernels are peculiar and distinct.
Makes a superior grade of flour.
Lb., 25c, postpaid; pk., 75c; bu., \$2.75, not prepaid

Lb., 25c, postpant; pk., 75c; bu., \$2.75, not prepaid
Silver Hull—Grain silvery-gray in color. Rounder
than common buckwheat, is earlier,
has thinner husks and yields more.
Lb., 25c, postpaid; pk., 75c; bu., \$2.75
Common Buckwheat. Selected Seed.
Lb., 20c, postpaid; pk., 65c; bu., \$2.50
Write for prices in larger quantities than here

named.

Seed Barley

This crop is receiving more attention in some parts of the country than formerly. It has proved of inestimable value to every one who feeds stock, either alone or mixed with other feed. It also brings a good price in market. (48 lbs. to bushel. Sow 2 bushels to the acre.)

ing and feeding qualities. It is similar to the Manshury, and has the additional merit of being a heavier yielder. The kernels are meaty and very nutritious, which has brought it into high regard by stockmen. The heads fill out well, and the straw is of medium length and steady growth, which makes it an easy crop to harvest. We consider it the best of the six-row varieties, and in all sections where it has been tried it has superseded the other varieties. Oderbrucker. Six Row Barley. This

White Hulless. This comparatively new variety is fast coming into favor throughout the barley-growing section of the country. When once grown, its merits will insure it becoming a permanent crop on the farm. The kernels are white, large, and plump, and about the same weight as wheat. It is a splendid feed for fattening hogs and can be ground and fed to other stock to advantage. It is also excellent for poultry. It is hardy and adapts itself to almost any soil, maturing in a short season and yielding as high as 50 to 60 bushels to the acre. This barley makes specially fine feed for young pigs. The straw is also of good feeding value for hay.

Prices: Lb., 25c, postpaid; \$6.00 per 100 lbs.

Beardless. This is a splendid feeding barley, full of

Beardless. This, is a splendid feeding barley, full of nutriment and safe for young stock on account of its freedom from beards. It is early and an abundant yielder, and will do well on any soil where bearded barley can be grown.

Peck. 85c; bu., \$3.00

Speltz or Emmer

this grain resembles wheat, but is a much larger yielder, producing frequently as high as 80 bushels of grain per acre, and that on the poorest land. The hay if cut green is desirable for horses or cattle feed, while the straw after threshing is equal to the best wheat.

The heads are somewhat similar to two-rowed barley. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of any other grains. Cultivation similar to wheat or oats. Sow at the rate of 50 to 60 lbs. per acre.

25c lb.; per 100 lbs., \$4.00

Prices subject to change without notice. Bags extra.

MISCELLANEOUS FARM SEEDS—Continued

Cow Peas

Cow Peas make one of the largest yielding and most nutritious forage crops grown. There is also no surer or cheaper means of improving and increasing the productiveness of your soils than by growing Cow Peas. There is a wide difference between Cow Peas and Canadian Peas. Bear in mind that the Southern Cow Peas belong to the bean family, therefore must not be sown until the ground is thoroughly warm and all danger of frost is past. The value as a fertilizing crop exceeds that of clover, for, in addition to being a larger nitrogen gatherer than the clover, they draw from the subsoil to the surface large amounts of potash and phosphoric acid, thus putting the soil in most excellent condition for following crops. The feeding value of Cow Peas, either green fed as hay or preserved as ensilage, is very high, being considerably above that of Red Clover. Sow 1½ to 1½ bushels per acre. per acre.

Whip-Poor-Will. An early variety, tall, upright, medium yield of peas, for which they are particularly grown. Highly recommended for "hogging down." Highly recommended Pk., \$1.25; bu., \$4.75

Soy Beans

Like Cow Peas, this is an introduction from the South, and by many farmers considered fully the equal of that crop for either pasturing or for plowing under. As in the case of Cow Peas, planting should be delayed until the ground is warm and for best results, seed should be drilled in at the rate of about three-fourths of a bushel to one bushel to the

acre.

Yellow Seeded. A heavy hay producer.

Pk., \$1.25; bu., \$4.00

Ito San. Early Yellow seeded variety; will mature seed in this section, and a good hay producer.

Pk., \$1.25; bu., \$4.00

Canada Field Peas

Grown with Oats makes a fodder or hay which doubles the production of Milk.
They should be sown in March or early in April, two bushels of peas and two bushels of oats to the acre. The peas should be sown first and plowed under about 4 inches deep; the oats then sowed and harrowed in. They will be ready for cutting about the latter end of June, when the oats are in milk and the pods formed on the peas. Prices variable.

Pk., \$1.35; bu., \$4.50

Dwarf Essex Rape

One of the best crops that can be grown for sheep or hog pasture. It is ready for use in from six to eight weeks from the time of planting and of a good crop; one acre will furnish enough feed for a dozen sheep for a period of two months. It can be planted from April to August—three pounds to the acre when drilled in, five pounds when sown broadcast. This plant is very hardy and will withstand frost longer than any other pasture crop. If planted in corn after the last cultivation, it will furnish a fine feed for grazing after the corn is cut. No farmer who raises sheep or hogs can afford to be without this valuable crop.

Lib., postpaid, 20c; by freight or express, 5 lbs., 85c; 10 lbs., \$1.50; 100 lbs., \$10.50.

Sunflower

Mammoth Russian. The best variety for the farmer.

Drill in seed at the rate of about 7 lbs. to acre. It is much relished by poultry and horses.

Oz., 5c; lb., 25c; postpaid; 10 lbs., \$1.35, not prepaid

Seed Flax

Prices subject to market changes.
Flax should be sowed late enough in the spring to avoid frost, but as early as it is possible to do so, in order to secure the early spring rains. When grown for the fiber, about one bushel should be sown to the acre; but if for seed alone, usually one-half bushel is sufficient.

Lb., 25c, postpaid; pk., \$1.65, not prepaid

Write for prices in large quantity

Kaffir Corn

This is one of the best of forage plants, and is the greatest grain producer of the cane family. Valuable as a substitute for Buckwheat flour. For grain sow at the rate of 5 to 7 pounds per acre and cultivate same as corn; average yield 50 bushels per acre. Postage paid, 1b., 20c; freight or express, not prepaid, 10 lbs. for 75c; 25 lbs for \$1.25; 100 lbs., \$4.00.

Milo Maize

7ill make a crop when corn would fail. Stalks reach eight to ten feet in height and yield a large amount of fodder. Produces large, heavy heads of grain. Plant in three-foot rows, and cultivate as corn. Three to five pounds per acre. Postpaid, 1b., 20c; by freight or express, not prepaid; 10 lbs., 85c; 50 lbs., \$3.00; 100 lbs., \$5.00.

Feterita

It is twenty to thirty days earlier than Kaffir Corn and more productive, heads equally as large, withstands drought as well or better and branches from the root. One seed produces anywhere from 3 to 10 stalks, usually 6 to 8 each bearing a full-sized head, all filled with fine white plump grains, a little larger than Kaffir Corn. The stalks are well covered with large blades from the ground up, and after the heads are removed there is from two-thirds to three-fourths as much stover left as would be furnished by any average crop of corn. Plant a few acres to feed your hens and fill your egg basket. It is one of the surest croppers and one of the best seeds for poultry and pigeons.

Lb., 20c; 10 lbs., 85c; 100 lbs., \$6.00

Sugar Cane or Sorghum

This is a splendid fodder plant and is grown extensively for dairy feed; also for hogs or sheep. For fodder, it is sown broadcast, about 40 pounds to the acre or drilled in thickly, 10 to 15 pounds. We have also an excellent stock of the Early Amber variety, which we recommend to those who plant for syrup. For this purpose drill in 4 or 5 pounds to the acre. Sugar Cane for fodder. 10 lbs., 80c; 100 lbs. \$4.50 Early Amber. Select. Lb., 25c; 5 lbs., \$1.00

Evergreen Broom Corn

This evergreen variety grows about 8 to 10 feet high, stands up well and is entirely free from crooked brush. The fiber is long and fine. It will not get red in the field before it is cut but is strictly a green variety of brush.

Lb., 35c, postpaid; pk., \$2.25, not prepaid

Vetches or Tares

sand or Winter Vetch (Vicia Villosa). Rapidly comvor as a winter cover crop, also desirable to plow under for green manure, or can be pastured or cut for hay. It is usually sown in the fall broadcast, at the rate of a bushel (60 lbs.) to the acre. Sometimes sown with rye, 40 to 50 lbs. of Vetch to about 30 pounds of rye. If sown in the spring it will produce a crop which can be cut for hay in mid-summer and second growth pastured afterwards. Choice quality seed, per pound 30c; 100 lbs., \$15.00. wards. Cho 1bs., \$15.00.

Spring Vetch (Vicia Sativa). Used for soiling or fodder. Sow 80 lbs. to the acre when alone, or with wheat or oats about 50 pounds. Lb. 25c; 100 lbs., \$9.00

Wild Rice (Zizania Aquatica)

This plant thrives on the borders of lakes and ponds. It is a favorite food for wild ducks and geese. Seed should be sown immediately after harvest or preserved in damp moss for spring planting.

SELECTED FIELD CORN

Northern Grown Seed

Our strains of corn are not the common kind often found on the market; we pay special attention to the selecting of stocks in all lines of farm seeds. This is particularly true of field corns where re-selection means the limit of crops with little or no increase in cost. It is amazing to realize where the old unselected seed is used the average crop per acre is only half compared to the more intelligent selection of strains. Our stock is selected for size of ear and fodder, which means a considerable increase in production.

Plant 8 to 10 qts. per acre in hills for ears. Sow 2 to 3 bushels for fodder. Prices subject to change without notice. Bags extra



Reid's Yellow Dent

Golden Glow. It is one of the earliest of the yellow dents and is especially adapted for growing in the northern states. It is now very largely planted in the state of Wisconsin and some splendid crops have been harvested. The type of this corn is well fixed, the ears maturing very uniformly as to size and shape; the kernels are of good depth and set closely together, filling out the cob evenly from butt to tip. The stalks are strong with ample foliage for silage, if wanted for that purpose. We strongly recommend this variety for planting in northern Ilinois, Wisconsin, Michigan or sections in about the same latitude.

Peck, \$1.25; bu., \$4.00

Minnesota No. 13. Another splendid early yellow dent. The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length, and are borne usually two on a stalk. No corn excels in quality Minnesota No. 13; the cobs are well filled and the individual kernels plump and of good color. Minnesota No. 13 thoroughly matures in 90 days when planted on favorable soil and in a good location but ninety-five to one hundred days places it out of danger under average conditions. Minnesota No. 13 will thrive and produce abundantly on most any soil, and will do remarkably well under adverse conditions when other varieties would fail entirely.

Pride of the North. Ears 8 to 10 inches in length. Kernels closely set, above medium size, long, narrow, thin, of deep orange color, shading to pale yellow at the tip. 16-rowed, matures in 90 days. Cob very small and red. In a test, 70 pounds of ears, not selected and but imperfectly dried, produced 60½ pounds of shelled corn and only 9½ pounds of cobs, instead of 14 pounds, the usual proportions. Stalks about medium height—6 to 8 feet. Our stock is Northern grown.

Peck, \$1.25; bu., \$4.00

White Cap Yellow Dent. For poor, thin land this is the Seed Corn to 100 days. It is a strong grower (6 to 7 feet high), resists heat and drought wonderfully, yielding good large ears on small cobs. The outer end of the grain is white, deeply dented. The inside is yellow. The fodder is abundant and of superior quality as it remains green after the grain is matured. Many of our Illinois and Wisconsin customers who have tried this think it is the best variety for their sections.

Peck, \$1.15; bu., \$4.00

Reid's Yellow Dent Corn. Northern Indiana grown. This special strain is desirable to plant for either grain or silage. The variety is so well known that it hardly requires description here. Its many merits have won for it a leading place among the yellow dent varieties. Our stock has been carefully selected and matures very uniformly in about 110 days, which, for such a large and heavily yielding Corn, recommended it as one of the most profitable varieties to grow. Peck, \$1.15; bu., \$4.00

Towa Gold Mine. This variety has everywhere received the most cordial endorsement as one of the best and most profitable varieties. It is early, ripening in about 100 days, ears of good size, color a bright golden yellow; grain is very deep, cob small, and therefore dries out very quickly as soon as ripe. Seventy pounds of ear corn will make about sixty pounds of shelled corn; and in hauling to market it weighs out considerable more to the wagonload than common varieties.

Peck, \$1.15; bu., \$4.00

Never use Feeding Corn for Seeding Furposes.

Prices subject to market changes. Seamless bags extra.

SELECTED FIELD CORN—Continued

Prices subject to change without notice. Bags extra

Silver King or Wisconsin No. 7. The best of the white dent variwhite dent varieties for planting in latitude of northern Illinois or southern Wisconsin. Of recent introduction, this variety has already become very popular. Ears averaging from 8 to 10 inches in length and evenly filled out, kernels of good depth and pure white, maturing in about 100 days. Pk., \$1.15; bu., \$4.00

Champion White Pearl. A pure white early corn, maturing in 90 to 100 days. Very prolific; the grain is long and wide, two of which will span the cob. The cobs are unusually small for the size of the corn, and are almost all white. The ears are medium-sized, 16-rowed, and can be planted much thicker than a large corn and yet bear full-sized ears. Makes splendid meal, and is very largely grown for that purpose.

Pk., \$1.15; bu., \$4.00

Iowa Silver Mine. Matures in about 100 days in the Illinois corn belt. The stalks grow to a height of 7 or 8 feet and set the ears about 3½ to 4 feet from the ground. The ears measure from 10 to 12 inches in length, and often weigh 1½ pounds. They are uniform in size and shape, with 16 to 20 straight rows of deep, pure white kernels on a very small cob.

Pk., \$1.15; bu., \$4.00

Seed Pop Corn—See Page 56



Southern Millet

Flint Varieties

Yellow Plint (Longfellow). The most popular of all flint varieties. It is a beautiful eight-rowed yellow flint, with slender, straight ears, 10 to 15 inches long. Kernels are large and wide, and cob very small. Ripens in 75 to 85 days, and very prolific. Well adapted to the northern states and largely grown in northern Wisconsin and Minnesota.

Pk., \$1.25; bu., \$4.00

White Flint (Sanford). A well-known white flint corn. Medium-sized ear, averaging about 10 inches long. Handsome, large and well-filled grains. Pk., \$1.25; bu., \$4.00

Red Flint (King Phillip). An early, prolific corn suitable for northern climate, where it will produce a crop when others fail.

Pk., \$1.25; bu., \$4.00

Corn for Fodder and Silo

We consider the best time to cut Silo Corn is when the kernels have become well dented and the ears nearly ripe. The stalks, however, should be green, with the possible exception of a few lower leaves, which probably will have started to dry.

Leaming Fodder. Plant this for your silo. We consider it to be the best corn in our list for that purpose. It is a large, vigorous growing variety, producing an immense amount of fodder and forming large ears which, in this latitude, develop into the proper stage for silage in about 190 days from planting. This will require about 142 bushel to the acre and should be drilled in. When planted only for green feed, it can be planted thicker—from 34 to 1 bushel to the acre.

Price: Pk., \$1.00; bu., \$3.25

Red Cob Ensilage. Well-known ensilage and on account of its large growth of leaf and stock, it is used freely in the west and north for fodder and ensilage purposes.

Price: pk., \$1.00; bu., \$3.25

Millets

The several varieties will furnish feed for live-stock in the form of grain or seed, fodder, soil food or pasture. Especially valuable in seasons when the hay crop is short. They make the best hay if cut in blossom and carefully cured.

Southern Grown Millet. Can be planted as late as July, and will produce from three to four tons of hay per acre. For this purpose, the crop should be cut when in full bloom. Sow at the rate of 50 lbs. per acre.

Lb., 20c; 10 lbs., 85c; 100 lbs., \$7.00

Common Millet. Similar to above. Does not yield so heavily nor is the hay of as good quality. Lb., 20c; 10 lbs., 75c; 100 lbs., \$6.00

Hungarian Millet, sometimes called Hungarian Grass. This variety is in good demand, as it will produce a crop quicker than any of the other sorts. It can, therefore, be planted later. The hay is also of excellent quality.

Lb., 20c; 10 lbs., 85c; 100 lbs., \$7.00

Especially valuable for planting on low lands.

Lb., 20c; 10 lbs., 75c; 100 lbs., \$6.00 Japanese Millet.

Sudan Grass (Andropogon Sorghum)

grass yielding immense quantities of hay lous quality. Recommended especially for A new grass yielding im of nutritious quality. Rec-central and southern states.

central and southern states.

May be grown either in cultivated rows, or broadcast. If planted in cultivated rows, the rows should be as close as possible and yet permit of easy cultivation. In 30-inch rows, 3 to 4 pounds of seed per acre is ample. Under irrigation, 18-inch rows are preferable, and 4 to 6 pounds of seed per acre is sufficient.

sumcient.
For broadcasting, 20 pounds of seed per acre should be used. The seed should not be sown until the time for planting corn.
Lb., 30c; 5 lbs., 90c; 10 lbs., \$1.50; 25 lbs., \$3.00; 100 lbs., \$10.00.

GRASS SEED MIXTURES and HAY and PASTURE

FTER years of experimenting we have aided largely in establishing the fact that a thick and more prolonged growth is produced by a mixture of several varieties than when only one or two are used. There are always certain grasses that are especially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our Mixture for Permanent Pastures grasses will be found that mature at intervals during the season, thereby insuring continuous pasturage, while our Mixture for Hay Land will furnish excellent hay as well as late pasturage.

We are prepared to furnish seeds adapted to all soils and all situations, and for all purposes, composed of grasses for light, medium or heavy soils; by light soil we mean that which is more or less of a sandy or gravelly nature; the heavy, clay and heavy loams; while the medium is an intermediate between these two. A light, wet soil, with respect to the grasses suited to it, may be considered same as to the heavy soils, and a dry, heavy soil, more as to light soils.

These mixtures are especially blended with a view to secure the largest possible yields. All the grasses are permanent when once established. They will last indefinitely if occasionally top dressed.

Mixture for Hay Land. Sow 25 pounds to the acre. When ordering state kind of soil and situation where to be sown. Price,

Per 1b., 35c; 25 1bs., \$7.50; 100 1bs., \$25.00

Mixture for Permanent Pastures. Sow 30 to 35 lbs. to the acre. Price,

Per 1b., 35c; 25 lbs., \$7.50; 100 lbs., \$25.00

A field of alfalfa: third cutting in one season.



Barnard's High-Grade Clover Seed

Clover prices often vary from week to week, according to market. The prices below represent fair market values when this book is printed and are subject to change. Purchasers of large quantities should write for latest prices. Grain bags extra. Postage must be added if wanted by mail.

Alfalfa, or Lucerne (Medicago Sativa)

(Medicago Sativa)

Alfalfa is being more generally grown as experience is teaching our farmers the proper methods to follow. Once established, it is such a profitable crop that every farmer can afford to take great pains to obtain a stand. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it and gives the Alfalfa a chance. Must be sown at the rate of 20 to 25 pounds per acre when sown broadcast. Different soils do not seem so difficult to overcome, especially where they can be properly drained, pulverized, sweetened and inoculated.

Alfalfa does not thrive on acid or sour land.

A liberal dressing of fine ground lime will be found a great benefit to the soil. May be sown from April 1st to June 15th for the early spring sowing, either drilled or sown broadcast. If broadcast cover lightly with a light drag or with single stroke of a harrow.

Much seeding is now done later and many prefer sowing from July 15th to September 15th. When seeded late it gives the grower an opportunity to have his land clean and free from weeds, and if weather conditions are favorable a crop is almost

Alfalfa natelly subsoil. Alfalfa naturally prefers a deep, sandy or grav-elly subsoil. Roots from 3 to 15 feet deep and a good stand on properly selected land should yield from 3 to 5 cuttings a year. We offer American grown seed raised in the North-west and West on non-irrigated land. (60 lbs. per

west and bushel.)
Per lb., 50c, prepaid; 10 lbs, \$3.50; 100 lbs., \$28.00, not prepaid.
Price on Cheaper Grades Given on Application

Grimm's Alfalfa

Extremely hardy. Especially suitable for northern latitude. Good stock of this strain is very scarce. We expect to have only a limited quantity to offer. Lb., 65c; 100 lbs., \$40.00

Alsike, or Swedish Clover

A very hardy clover; good for pasture and hay and bees. Does especially well on low or moist land. Sow if alone 10 to 12 lbs, to the acre.

Lb., postpaid, 50c; 10 lbs, not prepaid, \$3.50.

100 lbs., \$32.00; bags extra

Bokhara or Sweet Clover

We handle only the white variety, which we consider the best. This plant is rapidly coming into favor with dairymen and stockmen. Formerly it was deemed of value only as a food for bees; but now, its merits as a pasture and hay crop, are being recognized. To a large extent it has the good qualities of alfalfa, besides thriving on a greater variety of soils. For hay, it should be cut just prior to blossoming. It yields two to three crops. It is a biennial and dies after the two seasons unless allowed to seed itself. Like all legumes it is a great soil builder. We offer recleaned seed free from hull. It should be sown at the rate of 20 lbs. to the acre.

Lb., 35c; 10 lbs., \$2.00; 100 lbs., \$15.00 Hubam, the new Annual White Sweet Clover.

Per oz., 10c; ½ lb., 25c; lb., 70c

Red Clover—Medium

One of the most widely grown farm crops. Valuable for hay, pasturage, or for plowing under. If seeded alone, about 12 lbs. is required to the acre. Medium Red Clover is used very largely to rotate with other farm crops. It adds fertility to the soil and produces two crops. The first is usually cut for hay; the second left for seed or to plowed under. Extra select stock, Per 1b., postpaid, 60c; 10 lbs., not prepaid, \$4.25; 100 lbs., \$38.00.

Red Clover—Mammoth or Sappling. Grows taller and makes

heavier growth than Medium Red. Excellent to plow under for green manure. Seed 10 to 12 lbs. to the acre.

65c; 10 lbs., not prepaid, \$4.50; 100 lbs., \$38.00 Scarlet, Crimson or Carnation Clover. A quick

annual. Desirable for pasture or to plow under. Where the winters are not too severe, should be seeded in the fall about 15 lbs. to the acre.

Lb., postpaid, 35c; not prepaid, 10 lbs., \$1.75

White or Dutch Clover

Its short, spreading habit of growth makes it val-uable for lawn or pasture and bees; very hardy. Extra fancy stock. Lb., 75c; 10 lbs., \$7.00

GRASS SEEDS

Our stocks of grass seeds are selected with the the greatest care. We handle none other than those of highest quality.

The prices quoted are net and subject to market fluctuations. Ask for ruling prices on timothy when ready to buy. We ship by freight or express at expense of purchaser. If to be mailed, please add sufficient for parcel postage. ficient for parcel postage.

Awnless Brome Grass (Bromus inermis). Will stand long droughts and useful for binding slopes and embankments. It is one of the hardiest grasses. Will succeed in a wider range of temperature than any other grass. Sow 35 to 40 lbs. to the acre.

Canada Blue Grass (Poa Compressa). Its merit is in the fact that it wil grow on almost any soil under any adverse climatic conditions where other grasses would fail. Especially suited for thin, dry soil. Sow 40 lbs. to the acre.

Lb., 50c

Creeping Bent Grass (Agrostis Stolonifera). Thrives best on low lands. On account of its short, slender foliage, vigorous root growth, and creeping habit, it produces a turf capable of withstanding a great deal of wear.

Lb., \$1.50

Chewing's Fescue. Adapted to dry soils also shady places. A good substitute for Lb., 60c; 5 lbs., \$2.50

Crested Dogstall (Cynosurus Cristatus). On dry hard soils and hills it is valu-able for its hardiness. Useful for lawn mixtures. Sow 25 lbs. to the acre.

Hard Fescue (Festuca Duriuscula). A dwarf grass desirable for dry localities where many other grasses would fail. Sow 30 lbs. to the acre. Price on application.

Lb., 40c

acre. Price on application.

Italian Rye Grass, Biennial (Lolium Italicum)

Yields an early and abundant harvest on any good common soil. Recommended for pasture mixtures. Also adapted for moist situations. Sow 50 lbs. to the acre.

Lb., 25c

Kentucky Biue Grass (June Grass: Poa Pratensis).

A low-growing, creeping grass of fine texture and color, also of good nutritive value. Desirable for either lawns or pastures. It is of slow growth, requiring at least two seasons in which to establish itself. For that reason it should be seeded with other grasses. It should form a liberal proportion of all good lawn grass mixtures, as it possesses to a larger extent perhaps than any other variety, those qualities most essentially required for a fine, permanent turf. For this purpose sow 30 to 40 pounds to the acre with other grasses; if sown alone use 60 to 75 lbs. to the acre.

Lb., 60c; 100 lbs., \$50.00

Meadow Fescue (Festuca Pratensis). An excellent pasture grass, early, nutritious, and thrives well on all good soils. The long, tender leaves are much relished by cattle. It makes a very good quality of hay. Flowers in June and July. Sow 40 lbs. to the acre.

Lb., 35c

Rough Stalked Meadow (Poa Trivialis). One of the best of the grasses for shady places. Of spreading habit of growth it forms a dense turf and maintains its rich green color all through the season. Especially adapted to moist situations.

Lb., 850

to moist situations.

Orchard Grass (Cocksfoot; Dactylis Glomerata).

One of the most widely known of pasture grasses. Its properties are earliness, rapid growth and power to resist drought. Will endure some shade. If cut when in flower, it makes first-rate hay; ripe, it makes poor hay. Flowers about the same time as Red Clover. Sow 24 lbs. to the acre.

Lb., 35c; 100 lbs. \$25.00

Perennial Rye, English Rye or English Blue Grass (Lolium Perenne). Nutritious and valuable; in most places not excelled by Blue Grass for pasture. It thrives on almost all cultivated soils; starts early and grows all summer. Flowers in June. Sow 60 lbs to the acre.

Lb., 25c

Red Top (Agrostis Vulgaris). Thrives on low lands.

Red Top (Agrostis Vulgaris). Thrives on low lands, where it cuts a good crop of rather light hay of fair quality. Suitable for low pastures. Sow 30 lbs. per acre. Useful for lawn or field.

Lb., 55c; 100 lbs., \$45.00

Rhode Island Bent (Agrostis canina). A low-grow-ing fine leaved grass of good color. Useful in lawn mixtures. Adapts itself to almost any soil, but thrives best on high or sandy land. Sow 50 lbs. to the acre. Price on application.



Timothy

Sweet Vernal Perennial (Anthoxanthum Odoratum).

Useful as a mixture with other grasses on account of its early growth. It emits an agreeable odor when cut for hay. Sow 5 lbs. to the acre with other grasses. Price on application.

Tall Fescue (Festuca Elatior). Produces large crops on strong, heavy land. Grows naturally in shady woods, roots deeply, and stands dry weather remarkably well. Sow 40 lbs. to the acre. Price on application.

Timothy (Phleum pratense). The standard grass for hay lands. To seed alone use 15 lbs. to the acre, or 12 lbs. of Timothy and 3 lbs. of Medium Red Clover (a desirable combination). It thrives best on loamy soils.

Lb. 20c. Write for market price on large lots.

Wood Meadow Grass (Poa nemoralis). The best variety for sowing in orchards under trees, or for shady lawns and pastures. Sow 30 lbs. to the acre. Lb., \$1.50

Barnard's "Shady-Place" Lawn Grass Seed

On nearly all lawns there are shaded, bare and unsightly spots on which the owners have difficulty in getting a stand of grass; for such places this mixture is adapted. It is composed of dwarf-growing grasses which are found naturally growing in such places. Should the ground have become "sour" or drainage defective, it is apt to be covered with moss. If such is the case, the moss should first be removed by the use of a sharp toothed rake, then give a liberal sprinkling of wood ashes, lime or land plaster to sweeten the soil; stir thoroughly into the surface soil and then sow Barnard's "Shady Place" Grass Seed at the rate of one pound for 200 square feet, or 75 pounds to 100 pounds to the acre for a new lawn; for old lawns sow seed in proportion, according to the conditions. proportion, according to the con-

fit proportion, according to the conditions. ½ 1b., 35c; 1b., 65c; 3 1bs., \$1.85; 5 1bs., \$3.00; 10 1bs., \$5.75; 25 1bs., \$13.00

Barnard's Choice Lawn Mixture

While containing fewer and less expensive grasses than our "Perpetual Green," this is a good well-balanced mixture which we do not hesitate to recommend.

Lb., 40c; 5 lbs. for \$1.85; 10 lbs., \$3.50; 25 lbs., \$8.50; 100 lbs., \$32.00.

Lawn Accessories

A well-kept, neatly-trimmed lawn is a joy to behold. Lawn Seed, while an important item, must be supplemented by applications of fertilizer, mowing, rolling, and general maintenance during the year. We recommend DUNHAM'S WATER-WEIGHT LAWN ROLLERS, the most popular size of which is No. 7 at \$18.50 each.

The PHILADELPHIA LAWN MOWER has proven its worth through years of service. We can also supply parts for these mowers, which you can put on yourself, or your hardware man will be glad to do it for you.

Mixture for Quick Effect

There is considerable demand for a grass seed that will produce a quick growing turf. For this purpose we have prepared a mixture of a few strong-germinating, vigorous-growing grasses which will produce a turf of fair quality within a few weeks after seeding. The grasses in this mixture are mostly annuals and biennials, and such a turf could be relied upon only for one or two seasons. A permanent lawn could be secured, however, by re-seeding at any time with any of our other mixtures.

Price per lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.70; 25 lbs., \$6.50; 100 lbs., \$25.00.

A General List of Grass Seeds See Preceding Pages



Barnard's "Shady-Place" Grass Seed

Terrace Mixture

For seeding side hills, terraces, embankments, etc. A mixture of grasses whose roots penetrate deeply and bind the soil. When sowing, add to the mixture about one-fifth part of oats, which holds the soil together until the grasses have made a good start.

Lb., 65c; 5 lbs. for \$3.00

Putting Green Mixture

This mixture is intended not only for putting greens, but for all lawns that are to be used as pleasure grounds and necessarily requiring a fine, dense turf—one capable of withstanding constant wear. With this in view, after experimenting with several combinations of the best fine-leaved, low-growing grasses, we selected those which, rightfully proportioned together, produced just the results we were endeavoring to obtain. We have furnished some of the best known golf clubs in the vicinity of Chicago with this mixture and it has given splendid results.

Price per 1b., 65c; 5 lbs. for \$3.00. Special prices on large quantities.

Kentucky Blue Grass

Its uniform growth, creeping habit and beautiful color make it desirable for lawns. This grass lives longer than all others, but when sown alone is slow to make a lawn. Fancy cleaned seed, 1 lb., 65c; 5 lbs., \$3.00; 10 lbs.,

White Clover

Mixed with other grasses for lawn purposes this is very desirable on account of its creeping stem. It spreads rapidly and acts as a binder; very hardy, and remains green throughout the season; it is also excellent for bee food. Sow 6 to 8 lbs. per acre. Extra fancy quality.

Price, 1/4 lb., 25c; 1/2 lb., 40c; lb., 75c

Be Sure to Add Sufficient for Parcel Postage if We Are to Mail—See Second Page of Cover

Sheep Manure (Pulverized) for Lawns

Unexcelled for the lawn. It has no course strawor refuse, as in the case of crude manures, to make the lawn unsightly. To stimulate the growth of the grass on old lawns, about 1 pound to every 20 square feet should be applied two or three times during the season preferably after a light rain. On a new lawn use 1 lb. on every 10 square feet. Rake it thoroughly. **Five lbs.**, 35c; 10 lbs., 65c; 25 lbs., \$1.25; 50 lbs., \$2.00 lbs., \$3.00; 500 lbs., \$12.00; 1,000 lbs., \$22.00; ton, \$40.00. Sheep manure is not mailable. These include Chicago and vicinity delivery.

BARNARD'S

Selected Vegetable Seeds

Every year we carefully revise our list of seeds, add a number of new sorts and discard inferior varieties. Our selection will be found to contain those really desirable and our stock of the highest possible quality.



Kindly Read This Carefully Before Sending in Your Order

When ordering—Beans, Corn or Peas to be forwarded by mail add 8 cents per pound, 9 cents per 2 lbs. for postage in the Local, First and Second Zones, and 10 cents per lb., 12 cents per 2 lbs. within the Third Zone; other zones, add postage in proportion.

All Vegetable seeds (other than Beans, Corn and Peas) we mail FREE in Chicago and vicinity. TO POINTS OUTSIDE CHICAGO (regardless of distance) we mail free all seeds ordered by the PACKET, OUNCE OR QUARTER-POUND. When a larger quantity is wanted by mail postage must be added according to the zone.

For Parcel Post Rates—See Second Page of Cover.

ORDER EARLY. We would impress on all the importance of sending us their orders early. Please state definitely how we are to ship—express freight, or parcel post. Kindly make use of our order sheet and keep a copy to check up the goods. Cash should accompany your letter; send Money Order, Draft, Check, or Postage Stamps.

The W. W. BARNARD COMPANY gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants it sells, and will not be responsible for the crop.

Artichoke

Sow seeds in April or May in deep, rich, sandy, loam with plenty of well-rotted manure. When large enough, transplant into rows three feet apart and two feet in the row. Protect its crowns in the fall with ashes or litter and heads will form about July of second year. Renew the planting every third or roughly were tourth year.

Large Green Globe. Flower heads can be cooked like asparagus. Pkt., 10c; oz., 50c.

Jerusalem Artichoke. The tubers are planted like potatoes. About 3 bushels to acre. They are excellent for feeding stock, especially hogs.

Qt., 20c; pk., 75c; bu., \$2.50 Special prices on larger quantities,

Asparagus Seed

One ounce will produce about 500 plants.

Asparagus Seed should be sown early in spring, on rich, light soil, in drills a foot or more apart, covering the seed an inch deep. Thin to three or four inches when up.

This delicious vegetable can be grown from seed, but, as a general thing, it is more satisfactory to purchase two-year-old roots. Stir the ground deeply, adding 3 inches of well rotted stable manure or 2 ounces of bone meal to the square yard. The latest practice (Villmorin) is to dig a 3 inch trench in the prepared bed, spread the roots out on a little mound

of rich soil, giving each 2 square feet of space, cover and keep clean the first year. Mow the top in the fall (burn them to destroy disease) and mulch with coarse manure.

Early the second spring, fork (not "spade") in the fall dressing, with an oz. of salt and of wood ashes (or other form of potash) to the square yard. Do not "cut" (the young buds may be injured) but snap off the stalks just below the surface. Gather the young shoots sparingly till the third season, after which fertilize well and the bed will last many years. If seeds are desired, the following are best:

onvallet's Giant. This giant variety not only combines high productive power and lasting quality, but it withstands the rust so frequently disastrous to Asparagus beds.

Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., \$1.50

Columbian Mammoth White. Produces shoots which white as long as fit for use without earthing up on any other artificial blanching. Nearly all seedlings will produce clear white shoots.

Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., \$1.25

Washington. This new giant rust resisting strains originated through the labors of the Department of Agriculture, and is proving the most tender and prolific green, asparagus known. Try it by your old bed and see.

Pkt., 10c; oz., 25c; 1/4 lb., 75c
For Asparagus Roots, see page 78.

BEANS, Dwarf or Bush

Plant in a warm, well drained soil after danger of frost is passed, and each two weeks to July for succession. Rows 18 in. apart, drop 4-6 beans to the foot, and press them into the moist earth of the 2-inch drill by the foot or some heavy wheel.

Gradually draw earth against the plants in hoe-g, but never disturb the foliage when wet or the dreaded rust will come.

Gather all when picking and another crop will grow

Two lbs. will plant 100 feet or drill-60 to 100 lbs. to the acre.

NOTE-One lb. is about a pint; 2 lbs. about a

If wanted by mail see "Postage" second page of cover.

Green-Podded Varieties

Barnard's Stringless Green Pod. A splendid bean.

It is hardy and
early, so that several plantings can be made during the season. The plants are dwarf, sturdy
and yield abundantly. The pods are round, of
good size and of exceptionally fine quality, the
special merit being that they are strictly stringless. This, together with their brittleness, tenderness and good flavor, places the variety among
the very best of the green pod sorts.

Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 65c

Burpee's Stringless Green Pod. The pods are pale

straight, perfectly round and meaty, maturing with the earliest of the green pod varieties.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c



Full Measure Green Pod

ull Measure. A bean of recent introduction. Medium early, producing an abundance of long, round pods that are stringless, of fine quality and of attractive appearance.

Pkt., 10c; carton, 20c; 1b., 35e; 2 lbs., 65e



Barnard's Stringless Green Pod

Bountiful. Early, hardy and the most productive, flat, green podded bush bean known. Stringless, rust resistant and of good flavor.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Red Valentine. Improved Round Pod. One of the best known of the green-pod varieties. It is very hardy and a reliable yielder.

Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 65c

Longfellow. This is an excellent variety to grow for either home use or for the market. It bears profusely, and the long, slender pods are attractive to the buyer and their fine quality meet the demands of the most critical. This is a very desirable bean for the late planting.

Pkt., 10c; carton, 20c 1b., 35c; 2 1bs., 65c

Black Valentine. An extra early variety and therefore suitable for late planting. The pods are almost round, of firm fiber, consequently it is a suitable shipping variety.

Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 65c

Refugee, or 1000 to 1. A late variety, very attractive pods, round and small and one of the best canning sorts.

Pkt., 10c; carton, 20c; 1b., 25c; 2 1bs., 60c

BEANS

Dwarf or Bush Wax or Yellow-Podded Varieties

If wanted by mail, see "Postage" second page of cover.

Davis Kidney Wax. It is a reliable and exceedingly heavy exceedingly heavy yielder, with the merit of maturing early and very evenly. The pods are attractive, being long and straight and of a beautiful waxy white that does not discolor in cooking. The flesh is close-grained and of fine fiber. The seeds are pure white, kidney shaped and are excellent for cooking either green or dry.

Pkt., 10c; carton, 20c; lb., 40c; 2 lbs., 75c (2rdwell's Kidney Wax. A very popular

wardwell's Kidney Wax. A very popular, early, gardener's variety. Pods large, 5½ to 6 inches long, moderately stout, straight and flat, fleshy, brittle, fine grained and nearly stringless. Of good quality and very attractive.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Golden Wax, Improved. A medium early variety and a heavy, cropper, on vines of vigorous bushy growth, with good rust-resisting nature. The pods are golden yellow, fleshy and solid, brittle, waxy texture and have an exquisitely rich butter flavor, excellent for home and market garden. May be sown any time to early fall with the assurance of a good crop.

Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 60c

Hodson Wax. This is a splendid yielder, one of the largest podded of the wax varieties. It is an exceptionally good bean for the shipper, the pods holding their form and color a long time after they are picked.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Currie's Rust Proof. A well - known, flat-podded variety. Seeds

bluish black. Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c 15 lbs., \$2.75 Pencil Pod Black Wax. Medium early. Pods

round.
Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 65c Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 65c

Sure Crop Wax. Ranks with Bountiful. A
selection from Currie's
Rust Proof Wax, having black seed and
differing from that sort in that it is
stringless, more hardy, rust-resistant and
a little later. Pods flat, and average an
inch longer and somewhat thicker than
Currie's and with a stronger plant growth.
Very desirable.
Pkt., 10c; carton 20c; 1b., 35c; 2 1bs., 65c

Kentucky Wonder, or Old Homestead

Dwarf Shell Beans

The best return will result from planting in drills from 18 to 30 inches apart and leaving the plants four to six inches apart in the row. Up to the time of flowering they should have frequent shallow cultivation, but any mutilation of the roots by cultivation after the plants come into bloom is likely to cause fibe blossoms to blast and so cut off the crop. The cultivation of beans should always be shallow.

Horticultural Dwarf. Excellent as a shell bean either green or dry.
Pkt., 10c; 1b., 35c; 2 lbs., 60c White Kidney or Royal Dwarf. A superior kind for baking and is also

excellent when shelled green.

Pkt., 10c; 1b., 30c; 2 1bs., 50c Similar to White Kidney, except in color.

Pkt., 10c; lb., 30c; 2 lbs., 50c White Marrowfat. Grown as a dry bean for winter

use. Pkt., 10c; lb., 30c; 2 lbs., 50c Navy. The standard sort for winter use.

Pkt., 10c; lb., 30c; 2 lbs., 50c

BEANS BY PARCEL POST

Postage must be added to price of Beans. If we by mail, see "Postage," 2nd page of cover. If wanted

LIMA BEANS-See Next Page

Pole Beans

Pole Beans are more sensitive to cold and wet than the dwarf varieties. Should be sown two weeks later, and need very rich soil. One lb. will plant about 50 hills. Use wire fencing or string, if poles cannot be had.

Use wire fencing or string, if poles cannot be had.

Kentucky Wonder, or Old Homestead. Pods green, nine inches or more long, nearly round, fleshy, stringless, and judged to be the best flavor of all beans and the most popular green podded climber. It is an early and most prolific variety.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 60c

Lazy Wife. This is a superior variety for the home garden, also as a field bean among corn.

Desirable either for cooking in the pod or shelled for winter. A late sort.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Golden Cluster Wax. Long, broad, thick, pods,

Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 65c
Golden Cluster Wax. Long, broad, thick, pods,
borne in clusters. Prolific
and corresponds to Kentucky Wonder in many
ways. Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 65c
Cut Short, or Corn Hill. An old variety that is in
favor for planting among
corn. Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 60c
Horticultural (Wren's Egg, or Speckled Cranberry).
An excellent corn bean.
Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 60c
Scarlet Runner. A favorite, both as a Snap Bean
and for its flowers.
Pkt., 10c; 1b., 35c; 2 1bs., 65c

BEANS, Pole Lima

Of all the Pole Beans, Lima are considered to have the greatest economic value. The culture is the same as for other Pole Beans except that being more tender, the seed is usually planted one to two weeks later. About the time Maple leave start, set poles three feet apart, manure liberally in the hill and plant 5 or 6 beans eye down (to help germination), about each pole. Thin to 3 in a hill. Lima Beans for early use may be grown in frames and transplanted. As frost threatens in the fall, pull each root loose, lift the pole and vines and stand in some shed or hen house. The hens will enjoy the leaves and the beans will be fresh for weeks.

One lb. will plant about 50 hills.

Early Levithan Lima. The earliest variety of Pole Lima; produces pods in clusters. The best variety where the season is short.

Pkt., 10c; carton, 20c; 1b., 40c; 2 lbs., 70c

King of the Garden Lima. The pods are of enormous size, many specimens meas-uring from 5 to 8 inches, and some containing seven beans to the pod, all perfectly formed and of superior quality.

Pkt., 10c; carton, 20c; 1b., 40c; 2 1bs., 70c

BEANS, Dwarf Lima

Bush Limas should be planted in rows 18 to 30 inches apart, dropping two or three beans eye down, fifteen inches apart in the row. Cover about an inch deep. Dwarf Limas require no support.

One lb. will plant about 50 feet of a row.

Burpee's Dwarf Lima. Plants make perfect bushes from eighteen inches to two feet high. They are sure croppers and immense yielders. Pods as large as those of the Pole Lima, and contain beans of the best quality.

Pkt., 10c; carton, 20c; lb., 40c; 2 lbs., 70c

Henderson's Bush Lima. Valuable on account of extreme earliness; productive, The dry beans are small and white. A good variety to use for canning.

Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 65c

Fordhook Bush Lima. This is an excellent bush Lima bean for the home garden. It is a type between Burpee's and Dreer's. Pkt., 10c; carton, 20c; 1b., 50c; 2 lbs., 90c



Crosby's Egyptian Beet



Bush Lima Beans

BEETS

Sow the seed one inch deep as early in the spring as ground can be worked, and for succession, every two weeks after up to the first of July, in drills twelve to fourteen inches apart, and when well up thin to from four to six inches. The young plants removed in thinning are excellent cooked in the same manner as spinach. Take up the roots in October and store in cellar like potatoes. Covered with sand they will keep in nice, tender condition for winter use.

One ounce will sow 50 feet of drill; 5 to 6 pounds are required for an acre.

Crosby's Egyptian. Much in demand by market gardeners for forcing and early out-of-door sowing. Matures in 50 days. This beet is perfect in shape, and deepest red, almost black, in color. Equally good for early bunching as well as the fall market. Its fine color and supe-rior quality make this one of the best

beets

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., \$1.00

Fireball. Handsome globe-shaped Beet, with smooth skin and very attractive color. The flesh is solid and sweet, fully equal in quality of any of the varieties of Beets. An ideal Beet for either private growers or market gardeners.

Pkt., 10c; oz., 20c; 1/4 lb., 40c; lb., \$1.25

Eclipse. This is an extra early beet, and if sown late, it is valuable for winter Its rapid growth, extreme earliness, neat globe shape with small top and bright crimson color, make this a most popular sort.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 90c

BEETS—Cont'd

Barnard's Selected Edmands.

bunching,

and is a standard main crop beet. Its uniformity, handsome appearance, small top, and single tap root commend it most strongly to the market gardener, and for table use no other variety can equal it in fine quality. The skin is deep bloodred in color, flesh dark red, sweet and tender.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 90c

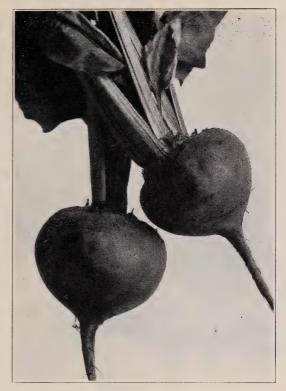
Crimson Globe. Handsome in shape, a little deeper than round, with a smooth surface and small tap root. Flesh deep crimson, ringed and zoned. Not only desirable for bunching for early use, but it is good for main crop.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 90c

Detroit Dark Red. A medium early (60 day) globe - shaped beet of excellent quality. It is especially esteemed on account of its dark-red color which extends entirely through the beet, and without the light-colored rings seen in some varieties. The beets are smooth and bandsome d handsome.

Pkt., 10c; oz., 20c; ¼ 1b., 40c; 1b., \$1.15

Improved Long Dark Blood. Flesh dark with lighter shade, tender and sweet.
Good for winter.
Pkt., 10c; oz., 15c; ¼ 1b., 30c; lb., 80c



Detroit Dark Red Beet

Mangel-Wurzels, or Stock-Beets

One ounce for 100 feet of drill; 5 lbs. for an acre.

One ounce for 100 feet of drill; 5 lbs. for an acre.

Mammoth Long Red. On good soil sometimes grows twenty-four inches long. Dark leaves; skin bright dark red; flesh white with veined rings of rose-pink. An excellent keeper; nutritious and milk-producing. Largest of the mangel and heaviest cropper. Fine for poultry in winter.

Oz., 10c; ½ lb., 20c; lb., 50c; 5 lbs., \$2.25

Golden Tankard. A yellow-fleshed variety highly prized by dairymen for milk-producing qualities.

Oz., 10c; ½ lb., 20c; lb., 50c; 5 lbs., \$2.25

Champion Globe. The best round Mangel. It is valuable for shallow soils, a better keeper than Long Red.

Oz., 10c; ½ lb., 20c; lb., 50c; 5 lbs., \$2.25

Sugar Beets

Klein Wanzleben. White flesh. Richest beet in sugar.

Oz., 10c; ½ 1b., 20c; 1b., 60c; 5 1bs., \$2.75

Lane's Imperial Sugar Beet. Forms a large root, long, tapering and well above ground.

Oz., 10c; ½ 1b., 20c; 1b., 60c; 5 1bs., \$2.75

Swiss Chard, or Spinach Beet

Also called Sea Kale Beet. The middle of the leaf, or midrib, is cooked and served like asparagus. The other portions of the leaf may be used like spinach. This is a delicious summer vegetable when cut young and used for "greens"; you can cut right down to the center bud, and new shoots will soon spring up. There are several varieties. We recommend the Lucullus where the rib of leaf is to be used. When wanted as a substitute for spinach, the Yellow cutting variety is the better. Sow seed one inch deep. One ounce will sow 100 feet.

Swiss Chard, Giant Lucullus. Pkt., 10c; oz., 15c; ½ 1b., 30c; lb., 90c Swiss Chard, Yellow Cutting. Pkt., 10c; oz., 15c; ½ 1b., 30c; lb., 90c BORECOLE (See Kale)

Broccoli

Culture and use are identical with that of Cauliflower.

One ounce of seed for 2,000 plants
Purple Cape.

Pkt., 10c; oz., 35c
Pkt., 10c; oz., 35c Early Purple Cape.

Brussels Sprouts

These are miniature cabbages produced from the side of the stalk. They are regarded as a great delicacy boiled and served in the same manner as Cauliflower. Sow in seed bed in May; transplant and cultivate like cabbage.

Pk., 10c; 0z., 30c; ¼ 1b., 75c



Swiss Chard, Lucullus

CABBAGE

For plants of the earliest sorts, sow seed in January or February under glass, and prick out in flats or frames about 2 inches apart each way. Transplant to open ground as soon in spring as the land can be properly prepared. A rich, warm, fibrous loam is best. Have the plants in the rows 20 to 24 inches apart, and rows at least 2 feet apart. Give thorough cultivation and irrigate in dry weather if practicable. A little nitrate of soda applied around the plant is of great benefit. Potash application, such as wood ashes, may also do much good. For late Cabbage plants, sow seed in drills in open ground during April and May, and transplant in June and July, giving the plants more room than allowed for early Cabbages. Dusting with tobacco dust, insect powder, slug shot, etc., are good and safe remedies for some of the insect pests attacking plants of the Cabbage family. Sow one ounce for 2,000 plants; six ounces for one acre. Since the discovery of the vitamine contents of raw cabbage (salad) and that ordinary boiling lessens its value, but little, cabbage becomes recognized as an important human food and should be freely used.



Cabbage, Early Jersey Wakefield

Early Jersey Wakefield. Long recognized as the best earliest marketable cabbage. In size, medium; in shape, pyramidal with pointed peak. Its uncommonly fine heading qualities, together with its fitness for wintering in cold frames, pleases the most critical gardeners. Our strain of seed is of superior quality.

Pkt., 10c; oz., 30c; 1/4 lb., \$1.00

Large Wakefield or Charleston. The heads are similar in form, although generally not so pointed, but of equal solidity as the original Jersey Wakefield, while they grow half again as large, reaching full size about ten days later. Pkt., 10c; oz., 30c; ½ 1b., \$1.00

Copenhagen Market. This is very heavy and solid, like the "Ballhead" type of cabbage; makes a fine, large, globe-shaped head with well-developed outside leaves, but is very much earlier in maturing than any of the Danish Cabbages in fact as early as Early Jersey Wakefield, and will give a much heavier yield per acre than that variety. It is short-stemmed, the heads being produced almost on the ground. The leaves are tightly folded around each other, which permits close setting of plants. 100 days to mature.

Pkt., 10c; 0z., 40c; ½ 1b., \$1.25

Glory of Enkhuizen. A very good cabbage. Medium in size, forms a ball-shaped head which is very firm and of good keeping quality. Matures about two weeks later than Copenhagen Market. This is a desirable cabbage for home use. It is a valuable second-early for those who grow for the market.

Pkt., 10c; oz., 35c; 1/4 lb., \$1.00

Winningstadt. An old and famous type of secondearly cabbage. It makes a large, conical head, about ten days later than Wakefield. Color, a bright, glossy green. Valuable not only for early use, but as a winter cabbage. A vigorous grower, it thrives even under unfavorable conditions.

Pkt., 10c; oz., 30c; ¼ lb., 75c All Head Early. Heads flat, deep, and solid; valuable also for late. Seeds sown in July and set out in August will make fine heads. Largely planted by market gardeners.

Pkt., 10c; oz., 30c; 1/4 lb., 85c

All Seasons. A splendid main crop sort, much grown by market gardeners; is also an excellent variety for home use. Remarkable for its ability to stand hot sun and dry weather. Makes solid hard heads, of large size.

Pkt., 10c; oz., 30c; 1/4 lb., 85c

Early Dwarf Flat Dutch. A well-known early shortstem variety. Heads of medium size and very compact.

Pkt., 10c; oz., 30c; 1/4 lb., 75c

New Varieties

Bugner. A large late short stem cabbage. Head very solid and a splendid keeper. Outer leaves bluish green.

Pkt., 25c; oz., \$1.50; 1/4 lb., \$5.00



Cabbage, Golden Acre

Golden Acre. A splendid new cabbage for market gardeners, in season and growth similar to Copenhagen Market. Heads early and remarkably uniform. Our seed is Danish grown.

Pkt., 25c; oz., \$1.40

Cabbage—Continued

Danish Ballhead. For several years our strain of this Cabbage has been known to be unexcelled. Danish Ballhead commands a higher price in the market than any other variety. It is remarkable for the solidity of its heads and long-keeping qualities. The heads are of medium size, with a few outer leaves, admitting of close planting; exceedingly fine-grained; hardest of all, tender, crisp, solid, with no waste heart.

Pkt., 10c; oz., 40c; ½ 1b., \$1.25

anish Short Stem. As compared with Ballhead, Danish Short Stem is ready for market ten days earlier. Heads of medium size; lighter in color; outer leaves set very close, producing more weight to the acre.

Pkt., 10c; oz., 40c; ½ 1b., \$1.25 Danish Short Stem.

Premium Large Late Drumhead. Head mous. Very hardy and desirable fall and winter variety, also a good shipper.

Pkt., 10c; oz., 30c; ¼ lb., 75c

Holland. The superior merit of this variety is the hard heading and long keeping quality. Heads medium size: white. If properly stored, they will be found when taken up in spring to be in perfect condition.

Pkt., 10c; oz., 40c; ½ 1b., \$1.25

Hints on Sowing Seeds

Soak slow sprouting sorts in warm water over night. Sow in freshly dug and fine soil. Small, fine seeds can be mixed with sand for even sowing. Press the seeds into the moist earth, by foot for large seeds such as peas, beans, corn, etc., the wheel of a barrow for rows of beets, etc., or pat with a brick or block for small seeds. This was the famous Peter Henderson's hobby.

Cover to a depth of two or three times the size of the seed and if the soil is a stiff clay, cover with sand.



Chicago Market Cabbage

Red Cabbage

Mammoth Red Rock. By far the best, largest and hardest heading red cabbage in cultivation; very uniform in size, weight, solidity, and deep red color. The heads grow to weigh 10 or 12 pounds. Pkt., 10c; oz., 30c; ¼ 1b., \$1.00

Savoy, or Curled Leaved

The quality and flavor of these "curled-leaved" most delicious.

American Drumhead Savoy. The best of its class for home use and market. Heads large, solid and compact. Has rich, sweet flavor of the cauliflower when cooked.

Pkt., 10c; oz., 30c; 1/4 lb., 85c

At the proper season, we shall have ready for delivery all the leading varieties, both early and late.

Cabbages is very superior; grown in fall and allowed to be touched by frost, they are sweet, delicate, and

Cabbage Plants

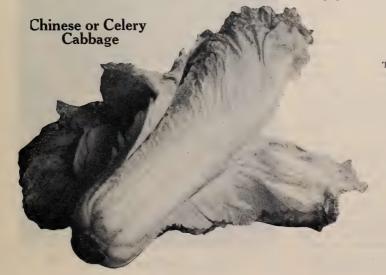
See page 78.

Hints on Transplanting

Shade small seeds from the sun with a screen until two leaves are open.

Most undisturbed plants have one long tap root and little else. If transplanted early (and this tap root is shortened) a lot of fine fibrous roots will be formed, increasing the root surface to take in food and water, and in case of later moving, enabling the plant to quickly re-establish itself.

This explains why trees and shrubs from a nursery, where they have been shifted several times, are so much better than plants picked up from their wild state.



Chinese, or Celery Cabbage

This vegetable is called Pe-Tsai, or Cut Cabbage, by the Chinese gardeners, and is beginning to attract attention in America. It does not form a cabbagehead, but when grown to its full size resembles the Cos Lettuce, and the outer leaves may be used during its growth. The flavor is mild and it is used either as a salad or cooked. The plants require plenty of room, and should be set in rows 2 to 3 feet apart and 15 inches apart in the row. Seed should be sown after July 1st, as early plantings run to seed. Pkt., 10c; oz., 30c; 1/4 lb., 80c



Danvers and Chantenay Carrots

CARROTS

For early, sow in spring as soon as ground can be worked, in drills 15 inches apart, covering one-half inch. Carrot seed is slow to germinate, and therefore seed should be pressed into the bottom of the drill before covering. It will be an advantage to mix the seed with sand or soil before sowing. For the main crop sow from the middle of May to the first of July. Thin out in rows from 5 to 6 inches apart. Hoe often and deeply between the rows. sandy loam, richly manured, is the best soil.

On account of the rich vitamine content, an authority on vegetables (Lloyd) advises eating carrots raw as well as cooked.

Barnard's Improved Danvers. This is a splendid strain which produces fine, broad-shouldered carrot about eight inches long, very uniform in shape. Color is handsome orange red. Skin smooth with very few indentations. In quality it has no superior. The flesh is close grained, sweet and of good flavor. An enormous yielder and more planted than any other. Pkt., 10c; oz., 20c; 1/4 lb., 50c; lb., \$1.35

Chantenay. Deep red flesh, fine grained and sugary. One of the best for home or market garden. It is early, grows about six inches long; stump rooted, always smooth. A heavy cropper. Pkt., 10c; oz., 20c; 1/4 lb., 50c; lb., \$1.35

Ox Heart, or Guerande. It is intermediate between the half long and horn varieties. Roots are short and thick, cylindrical in shape, and rich orange color. The flesh is fined grained. Little core. Good on shallow or heavy soils.

Pkt., 10c; oz., 20c; 1/4 lb., 40c; lb., \$1.15

(Carrots, Continued)

Early Scarlet Short Horn. Short, nearly round, good for shallow soil. Adapted for forcing for market and culture for early home use. Deep orange in color, flavor excellent.

Pkt., 10c; oz., 20c; 1/4 lb., 40c; lb., \$1.15

Half Long Scarlet Nantes. An early stump-rooted variety about six inches long. Flesh red, little core.

Pkt., 10c; oz., 20c; 1/4 lb., 40c; lb., \$1.15

Carrots for Stock Feeding

Four pounds of seed required for an acre. Improved Long Orange. Requires deep soil; plants should stand 4 inches apart in 18 inch drills for roots to attain full size. Oz., 15c; 1/4 lb., 40c; lb., \$1.15

Large White Belgain. Grows one-third above ground with small top; flesh rather coarse. Good for stock.

Oz., 75c; 1/4 lb., 35c; lb., 80c

For early use, sow in hotbeds in January and February. When plants are large enough, transplant three inches apart in boxes or other hotbeds until time to plant out. If hardened off they are seldom injured by planting out as early as the ground can be worked, 21/2 feet apart each way. The early varieties should be brought to maturity before the summer heat sets in. The late sorts mature in the autumn and are cultivated same as winter Cabbages. One ounce of seed will produce about 2,500 plants.

Barnard's Snowball. For main crop and for every purpose except for first early, or for culture under glass (for which we recommend the extra early Dwarf Erfurt) we emphasize Barnard's Snowball as a variety of the highest quality and reliable, sure cropping strain.

Pkt., 20c; ½ oz., 75c; oz., \$2.50; ½ 1b., \$9.00

Extra Early Dwarf Erfurt. Best for Forcing. Good for open ground. Dwarf and very solid, with short outside leaves. Can be planted 20 inches apart each way and forced. Our strain of seed is very choice.

Pkt., 20c; 1/4 oz., 75c; oz., \$2.50; 1/4 lb., \$8.00

Autumn Giant. Late; vigorous grower.

Pkt., 10c; 1/2 oz., 40c; oz., 75c



Barnard's Snowball Cauliflower

CELERY

To grow early Celery, sow the seed late in March in a hotbed or box and for later crops, in the open ground, as soon as the weather becomes warm, cover lightly, or better still, roll or press it in. Cover with sand to avoid baking and spread a piece of burlap over the surface to keep it moist and prevent washing out of sand. Remove this gradually as the sprouts show. Shade the young plants for a week or ten days, and do not let the soil dry out. The tops may be shorn off once or twice before planting, so as to insure "stocky" plants, which will suffer less on being transplanted. When from four to six inches high, transplant into broad, shallow trenches, or on the level ground, setting the dwarf sorts into rows three feet apart, and the tall varieties four feet apart and six inches apart in the rows. The soil should be light, highly manured, partially shaded and moist, or near water, as the plant must be freely watered in dry weather but it should not be put directly on them. Earthing up checks growth and should not begin until quite well grown, then earth up gradually, keeping the leaf stocks close together, so that the soil may not fall into the center of the plant, but never earth up in wet weather, nor when dew is on them. That intended for winter and spring use needs little banking; when stored for winter it will naturally bleach beautifully white.

Golden Self-Blanching. The best celery in

Golden Self-Blanching. The best celery in cultivation and the most profitable for market and family use. The handsome appearance and straight, strong stalks of this celery are well brought out in the illustration. The heart is large, solid, golden yellow in color, and of delicious flavor. It will turn at maturity to a yellowish white without banking, but like all other celeries is improved by having some soil brought up to the stalks.

Pkt., 10c; oz., \$1.00; ½ 1b., \$3.50

White Plume. The peculiarity of this leading variety is that the inner leaves and heart are naturally white, so that by closing the stalks, either by tying or by drawing the soil close about the plant and pressing it together with the hands, the blanching is completed. It is the earliest Celery in cultivation, but will not keep longer than the holiday season.

Pkt., 10c; ož., 40c; ½ 1b., \$1.00

Giant Pascal. Broad thick, solid cream-colored stalks of handsome appearance which are entirely stringless, crisp and tender. For January and February use is undoubtedly unexcelled. It is a good shipping variety, free from rust or rot.

Pkt., 10c; oz., 35c; ½ 1b., 85c

Perfection Heartwell. One of the best of the white varieties. The stalks are of good size, vigorous growth, very sound and never hollow; crisp, tender and of exceedingly fine nutty flavor.

Pkt., 10c; oz., 35c; ¼ 1b., 85c

Evans' Triumph. Not only a splendid keeper, but the very large solid stalks are of the finest texture and quality, crisp, brittle, tender and really nut-like flavor, and has a stronger celery taste than any other variety.

Pkt., 10c; oz., 35c; 1/4 lb., 85c

Dwarf Golden Heart. A distinct, rare and decidedly ornamental type; when blanched, being an exquisite golden yellow.

Pkt., 10c; oz., 35c; ½ lb., 85c

Giant Golden Heart. Large size beautiful color, crisp and deliciously flavored. One of the best celeries for market, and for home use.

Pkt., 10c; oz., 35c; ½ 1b., 85c

Winter Queen. Makes broad and solid white stalks. Close, compact grower.

Pkt., 10c; oz., 35c; ½ 1b., 85c

New Rose. We offer this as the choicest of the red varieties Pkt., 10c; oz., 40c; ¼ 1b., \$1.00



Celery-Golden Self-Blanching

Celeriac, Turnip Rooted Celery

Sow early in spring. Transplant in May into rich, mellow soil in rows eighteen inches apart and six inches in the row. Grown mostly for its bulbous root, which if boiled till tender and served cold with salad dressing is delicious.

Barnard's Giant. Very large roots. Flesh white with a stronger and sweeter flavor than other varieties.

Pkt., 10c; oz., 40c; 1/4 lb., \$1.40.

Large Smooth Prague. One of the best. Roots smooth and almost round.

An excellent keeper. Dig in the fall and store like beets. Pkt., 10c; oz., 25c; ½ lb., 75c

CHINESE, or CELERY CABBAGE—See Cabbage

Chervil

Used for flavoring or garnishing, and is more beau tiful than Parsley. Sow fresh seed in fan tor keep in sand till early spring) in rich soil, and when plants are large enough, transplant to a foot apart. As decorative as parsley and much used by foreign cooks.

Pkt., 10c; 0z., 25c

CORN, Sweet or Sugar

Seeds of Sweet or Sugar Corn, being liable to rot in cold or wet ground, should not be planted before May, or as the Indian said, "When the oak leaves are as large as mouse ears." For a succession, continue planting every two weeks until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about an inch, and thin out to three plants to a hill. The extra early varieties can be planted 18 inches in the row and 2½ feet between the rows. Pick just before cooking, as from 25 to 50 per cent of the sugar disappears in 24 hours keeping. The icebox will save about half of the loss.

One quart of seed corn plants 200 to 300 hills; one peck will sow an acre in hills. Add postage, if wanted, by mail-see 2nd page of cover.

Bardens' Wonder Bantam. This splendid new corn has the sweetness and

fine flavor of the golden bantam and is ready for the market at about the same time. It has the added merit of size, the ears ranging from 8-10 inches in length and grow up higher on the stalk. Market gardeners will find this a profitable variety to grow as it has earliness, quality size and productiveness to recommend it.

Pkt., 10c; carton, 25c; 1b., 45c; 15 lbs., \$3.50

Golden Bantam. We place this at the head of our list, as we consider it the ideal Corn for the home garden. For sweetness and richness of flavor it has no equal. It is a hardy, early maturing variety of very dwarf growth and can, therefore, be planted closer than other sorts and through a longer range of season. The cob is small, but fills out nicely with large, deep cream-colored kernels, which turn to yellow when entirely ripe. Our seed is northern grown, which assures the highest standard of vitality and permits of very early planting. No family garden should be without a plot of this excellent Corn. Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 65c

Mammoth White Cory. This is the favorite early variety with our market gardeners. It is a larger Corn than the old Early White Cory, has a fine, broad white kernel that is very sweet. It is a dwarf variety and a wonderfully prolific yielder, the ears being very uniform in size. Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 65c

Peep-o'-Day. A very dwarf but very early white variety, probably the earliest in cultivation, sweet and of good quality. Price:
Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Bantam Evergreen. One-third larger than Golden Bantam. Ten days to two weeks later, and will mature after that variety has passed the usable stage.

Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 65c

Early Minnesota. An old and popular dwarf variety.

One of the best for market and private gardens. Pkt., 10c; carton 20c; 1b., 35c

Stowell's Evergreen. The most popular late Sweet Corn. More extensively planted than any other sort, being the general favorite with market gardeners and canners for late use. If planted at the same time with earliest kinds, it will keep the table supplied until October. Ears are of good size, grain deep, tender and sugary, remaining a long time in condition for cooking.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Country Gentleman. One of the best known of the midseason varieties. Is the old shoepeg type of kernel; pure white, very sweet and tender. It is a good yielder and remains ready for use longer than any other sort. Extensively used for canning. Price: Pkt., 10c; carton, 20c; 1b., 40c; 2 lbs., 75c

Early Evergreen. Possessing all the merits of the Stowell's and maturing about ten days earlier. It is a splendid Corn for either the gardener or canner.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Stowell's Evergreen

Early Mayflower. A selection from Mammoth White Cory; has a white cob, the ear and kernels are larger and ten days earlier than variety. Very popular as a large, early, sweet corn.

Pkt., 10c; carton, 20c; 1b., 35c; 2 1bs., 65c

Black Mexican. Well known and a favorite in a great many home gardens, the kernels having a decidedly bluish tinge when ready to eat, later turning to black. It is one of the sweetest varieties in cultivation. Price:

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Howling Mob. A large-eared fine second early corn.
About the same season as Early
Giant. The kernels are small in size, of delightful
flavor and make a most attractive appearance.
Of the highest value for market gardeners.
Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Pop Corn

A Profitable Crop. Boys and girls can easily dispose of the product to the groceryman.

Pkt., 10c; 1b., 25c; 2 1bs., 40c

SEEDS BY MAIL. To pound prices please send extra to cover parcel postage. See second page cover.

CUCUMBER

Cucumbers succeed best in warm, moist, rich, loamy ground. They should not be planted in the open air until there is a prospect of settled warm weather. For early fruit, invert squares of sod, in a hot bed about April and plant on these. When transplanting, cut the sod into the desired sizes and the plants can be successfully moved. Plant in hills about four feet apart each way. The hills should be previously prepared by mixing thoroughly with the soil in each a shovelful of well-rotted manure. When danger from insects is past, thin out the plants, leaving three of the strongest to each hill. Spray with Bordeaux arsenate of lead mixture for insects, or dust with slug shot or tobacco dust. One ounce to 50 hills.

Early Fortune. Slightly longer than "Arlington White Spine," more cylindrical in shape, with very dark green skin and thick flesh, which is tender and crisp. A remarkable feature of this variety is the strong growth of the vines, which enables it to successfully with stand blight and bring the fruits to their full size and perfection. "Early Fortune" Cucumber is one of the best that has been introduced in years, and will soon take the place of many old-time strains of White Spine Cucumber.

Pkt., 10c; oz., 20c; ¼ 1b., 45c; 1b., \$1.50

Davis Perfect. A splendid cucumber for the home garden and for the truck farmer. Possesses all the merits of the best slicing varieties; wonderfully uniform in shape and exceedingly productive. Their handsome shape and fine dark green color commands the highest price on the market.

Pkt., 10c; oz., 20c; ½ 1b., 50c; lb., \$1.75

Evergreen White Spine. An extra long, dark green cucumber, one of the best for slicing and an excellent variety

for shipping.

Pkt., 10c; oz., 15c; ¼ 1b., 40c; 1b., \$1.25

Arlington White Spine. This variety is used for forcing in frames and hothouses. Long fruits of dark green color.

Pkt., 10c; oz., 15c; ½ 1b., 35c; 1b., \$1.25

Early Cluster. Vine vigorous, producing the bulk of the crop near the root and in clusters.

Pkt., 10c; oz., 15c; ½ 1b., 35c; 1b., \$1.25

Extra Early Green Prolific. Small, good for pickles.

Pkt., 10c; oz., 15c; ¼ 1b., 35c; 1b., \$1.25

Improved Long Green. A favorite for sweet pickles and also de-

sirable for slicing.

Pkt., 10c; oz., 20c; ½ 1b., 60c; 1b., \$2.00

Chicago Pickling. Originating in Chicago, it is now known the country over as one of the most valuable of the pickling varieties. Of robust growth, it is a reliable and heavy cropper. Fruit is of fine dark green color. In shape, tapering to each end and very uniform.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.40

West India Gherkin, or Burr. Small, prickly fruit.
Is used for small

Pkt., 10c; oz., 20c; 1/4 lb., 50c

Japanese Climbing. Can be trained upon fences and trellises, producing good fruit for slicing or pickling.

Pkt., 10c; oz., 15c; ¼ 1b., 40c; 1b., \$1.40

Telegraph. Suitable only for growing in frames or in greenhouses. Pkt. 20c

Collards

A form of cabbage very extensively used in the Southern States. One ounce for 150 feet of row. Pkt., 10c; oz., 20c; 1/4 lb., 40c; lb., \$1.40

Cornsalad, or Fetticus

One ounce will sow about 18 square feet.

Broad-Leaved. (Large-Seeded). A delicious salad, used during the winter and spring months as a substitute for lettuce, and also cooked and used like spinach or with celery stalks makes a good mixed salad.

Pkt., 10c; oz., 20c; 1/4 lb., 50c



Early Fortune Cucumber

Chicory

Large-Rooted, or Coffee. The roots, when dried, roasted, and ground, are largely used as an adulterant or substitute for coffee. The young leaves are excellent when used as a salad. Cultivate same as carrots.

Pkt., 10c; oz., 30c

Witloof or French Endive. Seed should be sown in the open ground not later than May, in drills 12 to 18 inches apart, thinning plants so they will stand about 4 inches apart. The plant forms long, parsnip-shaped roots, which should be lifted in the fall, and after cutting off the leaves store in soil in a cool place until wanted for winter forcing.

Pkt., 10c; oz., 30c; ½ lb., 75c

Chives

Their green tops, which appear in early spring, are used wherever the flavor of onions is desired. They are entirely hardy. Pkt., 10c; oz., 50c

Cress, or Peppergrass

Sow early in the spring, rather thickly, in shallow drills, one foot apart, in the open ground. Cut when 2-3 inch high.

Double Curled. For salads and garnishing. Leaves are pungent.

Pkt., 10c; oz., 15c; 1/4 lb., 30c

Water Cress. Scatter the seed on a muddy bank of an ever-running stream.

Pkt., 10c; oz., 40c

Upland Cress. Perennial. It is ready to use very early in spring. Has the flavor of Pkt., 10c; oz., 35c

Egg Plant

Sow in hotbed early in spring; transplant 2½ feet apart each way after weather becomes settled and warm. If becomes settled and warm. It no hotbed is at hand, plants may be started in pots or boxes in the house. The potato beetle is very fond of the plants. Paris Green, also Slug Shot, applied same as to potatoes, will keep them in check. One ounce per 1,000

Black Beauty. Spineless and



Black Beauty Egg Plant

Endive

For the first crop, sow in May, and for succession, in June and July. When the plants are two or three inches high, transplant them into light soil, one foot apart. When the leaves are eight to ten inches long, tie the tops together to blanch the heart and remove the bitter taste. May be lifted late in fall with ball of earth attached and place close together in a frame or cellar. It makes a delicious salad for winter use. One ounce will sow 150 feet of drill.

Green Moss Curled. A unique variety, somewhat resembling a tuft of moss. Very crisp, tender and of good flavor. Being less hardy than other sorts, it requires protection from cold. Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.50 Broad-Leaved Batavian. Has slightly wrinkled thick leaves. It is usually grown

for use in soups and stews. Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.50

FRENCH ENDIVE-See Chicory

Early White Vienna Kohlrabi

Garlic Sets

Used by some for seasoning soups, stews, etc. Plant the sets in spring and cultivate like onion sets.

1/4 lb., 15c; lb., 40c, postpaid

HERB SEEDS-See end of Vegetable Seeds

Horse Radish Roots

ant in spring, small end down. Small roots by mail, postpaid. Dozen, 30c; 100, \$1.25
In larger quantities, write for prices.

KALE, or Borecole

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are many forces for the source of the same as Cabbage. For early spring use sow in September, and protect during the winter.

One ounce to 300 ft. of a row-4 pounds to an acre

Dwarf German. warf German. A dwarf variety, but spreading out under good cultivation to 2 feet in diameter; the leaves are very beautifully curled, and of bright green.

Pkt., 10c; oz., 20c; ¼ 1b., 50c; 1b., \$1.25

Green Curled Scotch. About two feet high. Pkt., 10c; oz., 20c; ½ lb., 50c; lb., \$1.25

KOHLRABI

(Turnip-Rooted Cabbage)

For early use, sow in hotbed ,afterwards setting plants 8 inches apart in rows. For later use, sow seed in drills and thin out. One ounce of seed will sow a drill of about 200 feet.

White Short Leaved. Much superior to Vienna. It is very early and the best for forcing as well as for outdoor culture. Bulb is greenish-white, smooth, of finest texture and quality. Pkt., 10c; oz., 25c; ½ 1b., 80c; 1b., \$3.00

Early White Vienna. Early, small, white bulb. Best for table use.

Pkt., 10c; oz., 20c; 1/4 lb., 75c; lb., \$2.50

Early Purple Vienna. A little later than the white; color purple.

Pkt., 10c; oz., 20c; ½ 1b., 75c; 1b., \$2.50

We will have Kohlrabi Plants in Season

Hints for the Grower of Vegetables

The easiest and most profitable vegetables to grow in a city garden are Beans, Beets, Carrots, Cabbage, Lettuce, Onions, Peas, Parsnips, Radishes, Spinach, Swiss Chard, Tomatoes and Turnips. Potatoes as a rule are not successfully grown in a small city garden. Keep every foot working and promptly remove an early crop and replant with some late one.

For Best Results Sow as Follows:

Beans-Stringless Green Pod and Bountiful.

Dwarf Beans may be planted at intervals of a week or ten days from the beginning of May until the middle of August; they are generally planted in rows, allowing the plants to stand from 3 to 4 inches apart and with a space of 12 to 15 inches between the rows, or in hills containing not over five plants. A quart of seed to about 100 feet of drill. Venture a few when planting beets and carrots and an early crop may repay its occasional loss through rot or frost. Follow with beets, carrots, cabbage, etc.

Beets—Crosby's Egyptian for early and Barnard's Selected Edmands for main crop. Beet seed can be sown in the spring as soon as danger of frost has passed. The seed may be planted in rows or drills made 12 to 15 inches apart; when the plants are up they should be thinned to 4 or 5 inches in the rows. One ounce of seed is sufficient for 50 feet of drill. If a succession is desired during the summer, the planting can be made every two or three weeks. For winter use the seed should not be sown until July, and the crop can be stored in a cool cellar or in a vegetable pit. Follow early crops by beans, cabbage, etc.

Carrots—Barnards' Improved Danvers, Chantenay or Ox Heart should be sown as early in the spring as the ground can be worked; for later crops the seeds may be sown any time up to the first of July. An ounce of seed will sow about 100 feet of the drill, but the plants must be thinned out so that they will be about 3 inches apart. Carrot seed is slow to germinate and, therefore, the soil should be pressed closely about the seed. If a few radish seed are mixed in when sowing, they will quickly mark the rows and can be pulled when thinning the carrots. It will be an advantage to mix the carrot seed with sand or soil before sowing. The roots may be stored in a cool cellar for winter use. Follow with some other late crop.

Cabbage—Jersey Wakefield for early, Copenhagen for main crop, and Premium Late Flat Dutch for late crop. Seed should be sown in a well prepared piece of ground and the plants transplanted to permanent quarters when large enough to handle; be sure to bury the stem up to the first leaves and do not bend or cramp the roots. Wrap stiff paper about the stem when setting to keep off cut worms.

Lettuce—Grand Rapids, Black Seeded Simpson and Hanson are good kinds to grow; they may be sown at intervals and should be transplanted for the best results. If extra-early plants are desired, seed may be sown in a hotbed or coldframe and the seedlings transplanted to open ground. Follow with turnips, beans, radish, etc.

Onions—Easy to grow and a profitable crop. Plant sets early in the spring. If young green onions and also large ripe ones for winter use are wanted, an economical plan is to plant the sets from two to three inches apart and pull every other one when ready for use; this will leave sufficient space for those remaining to mature. Sow the seed as early in spring as possible, in shallow drills, and cover with fine soil. Thin to about 4 or 5 inches apart, keep well cultivated. Pull as soon as tops fall over and store dry.

Parsnips—Are very nutritious and should be grown in every garden if the soil is rich and deep; sow seed early in the spring, and dig in late fall or next spring.

Peas—Smooth Peas can be planted earlier than the wrinkled varieties. A sandy soil will produce earlier crops than clay, but if the ground contains a reasonable amount of humus, a good crop of Peas can be grown on almost any soil. The first planting can be made as early as February, and should be of such varieties as Barnard's Leader, or Alaska. For later sowings use the Dwarf Telephone, Gradus, or Laxtonian. For main-crop Peas you won't go wrong if you use Tall Telephone. For succession, seed may be sown every two weeks until the middle of June, then wait five or six weeks and plant extra-early sorts for a fall crop. Follow early peas by carrots, cabbage, etc.

Radish—Radish seed can be planted about as early as any of the vegetables, and it is entirely possible to sow the seed in a hotbed and have radishes during the winter. It is important that Radishes be grown quickly, for if they come on slowly, they will be pithy and strong. If seed is sown carefully, it will be possible to avoid thinning the plants, for the first Radishes may remain until they are of fairly good size; when these are taken out space will be allowed for the later ones to come into full growth. Successive plantings may be made every two weeks.

Spinach—May be sown as an early spring crop and followed by other vegetables. Feed well.

Swiss Chard—Should be grown in every garden. Sow the seed early in the spring; the leaves may be cut and cooked like spinach; the plants produce new leaves all season.

Tomatoes—May be grown from seed, but when only a few are wanted it is better to buy plants; they give the best results when tied to a stake or trellis.

Turnips—Are usually grown as a fall crop and the seed may be sown where beans or some early crop has been grown.

One of the most important things to insure success and have good vegetables is to keep your garden weeded, especially kill the weeds which grow after a crop has matured, as these seed badly.

Keep the surface loose while crop is growing.

LETTUCE

Every garden should grow lettuce. Dieticians advise eating some raw, green vegetable daily—salad of cabbage, endive, dandelion, celery, lettuce, etc.—because of their content of iron or other mineral salts and especially for the essential vitamines—all of which are largely lost in cooking.

Among such vegetables, LETTUCE takes a high rank.

LOOSE LEAF seed, sown in rich cold frame in March, can be cut (just above the center bud) in 45-60 days and will grow new leaves or can be moved to the open ground later at 8-12 inches in the row. Varieties which HEAD should be started early and pricked out in the frame to get room and good root system. As soon as the ground is mellow, set in the open and encourage rapid growth by liberal feeding (nitrate of soda) and cultivation. Sow common sorts for a succession. One ounce of seed will produce about 2,000 plants.

Curled or Loose Head Varieties

Grand Rapids. Of highest merit as a forcing variety. Owing to its peculiar upright habit of growth, it economizes in bench room and in a short time produces a mass of beautifully frilled leaves of quality for the table or for shipping. It is also an attractive and desirable variety for growing outside in the home garden. We have an excellent strain of seed of this variety which is proving very satisfactory to our customers.

Pkt., 10c; oz., 25c; 1/4 lb., 65c; lb., \$1.75

planted of any variety. Early, hardy, dependable, it is a favorite with market gardeners, both for planting outside or for growing under glass. The leaves are large, light green, quite crimpled throughout but especially frilled at the border. They grow compactly without forming a distinct head, are of firm texture and of good quality either for family use or for shipping. Can be planted later than most sorts, as its vigorous growth enables it to withstand the summer heat.

Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$1.50

Pkt., 10c; oz., 20c; 1/4 lb., 60c; lb., \$1.50

Early Curled Simpson. Standard loose-leaf varigrowth but not heading. The leaves are light green, curled and good quality. A satisfactory sort for the home garden.

Pkt., 10c; oz., 20c; 1/4 lb., 60c; lb., \$1.50

Prizehead. Well known, loose-heading lettuce, quite distinct from most other sorts on account of its peculiar color, light green shading to bright reddish brown. The leaves



Grand Rapids Lettuce

are somewhat crimped and grow more so at the border. In quality, tender and sweet. Pkt., 10c; oz., 20c; 1/4 lb., 70c; lb., \$2.00

Big Boston Lettuce

Cabbage or Heading Varieties

Big Boston. A splendid Lettuce for market gardeners, either north or Leaves are light green, nearly smooth except the outside edges, which are somewhat ruffled. Forms large and very compact heads that are especially suitable for shipping, for which purpose it is planted very large in the south for the northern market.

Pkt., 10c; oz., 25c; 1/4 lb., 75c; lb., \$2.00

Improved Hanson. This is one of the very best for the home garden. Forms solid heads with the inner leaves nicely blanched. The outer ones are light green, handsomely frilled at the edges. In quality it has no superior, the heads being of delicate, crisp texture, tender and sweet. der and sweet. Pkt., 10c; oz., 20c; ¼ 1b., 60c; 1b., \$1.75

Wayahead. It is not only earlier than May King, and other fine early varieties, but the tightly folded heads are generally larger in size. The outer leaves are a rich, buttery yellow. "Wayahead" stands a longer time before running to seed than any other early head variety.

Pkt., 10c; oz., 20c; ½ 1b., 60c; lb., \$1.75

LETTUCE—Continued

May King. Can be planted very early in the spring. Matures more quickly than any other of its class, forming large heads, the inner leaves blanching yellow, the outer ones somewhat tinged with brown.

Pkt., 10c; oz., 25c; 1/4 lb., 60c; lb., \$1.75

California Cream Butter. Favorite head Lettuce for summer planting and extensively grown in the south. Leaves rich, glossy green, slightly tinged with brown, of good quality and flavor. This is a hardy, reliable variety.

Pkt., 10c; oz., 20c; 1/4 lb., 60c; lb., \$1.75

Iceberg. Somewhat similar to Hanson, but smaller and of slightly darker color.

A good variety for either the market gardener or for family use.

Pkt., 10c; oz., 25c; 1/4 lb., 75c; lb., \$2.00

New York or Wonderful

New York or Wonderful. A sure headed variety which is crisp, tender and of fine flavor. It is reliable in almost every soil.

Pkt., 10c; oz., 30c; 1/4 lb., 85c; lb., \$2.75

Martynia, for Pickles

The young and tender seed-pods make excellent pickles. Sow in May or June.

Pkt., 10c; oz., 30c; ¼ 1b., \$1.00; 1b., \$2.00

Mustard, for Salads or Greens

A small pungent salad used like Cress. The seed is also used for flavoring pickles, pepper sauce, etc. For salads sow thickly in shallow drills, 6 inches apart, or in frames or boxes during the winter, where frost can be excluded. Successive sowings can be made every week or two. To grow seed, sow in April, in rows 1 foot apart, and thin out to 4 inches apart when 2 inches high.

White English. Excellent for salads or garnishing.

Pkt., 10c; oz., 15c; ½ 1b., 20c; 1b., 65c

Black or Brown. Leaves oblong, broad and cut. Pkt., 10c; oz., 15c; ½ 1b., 20c; 1b., 65c

Southern Giant Curled. Leaves much crumpled at the edges and twice the size of the ordinary White Mustard.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 75c

Giant Smooth Leaf. Large, fleshy leaves of mild flavor. Plant 12 to 18 inches across. A favorite variety in the South. Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 75c

To pound rate add for parcel postage. See second page of cover.



Trianon Cos Lettuce

Trianon Cos Lettuce or Romaine Salad

It differs from ordinary Lettuce by the shape of the leaves, which are elongated, spoon-shaped and very crisp. It is grown in the same manner as Cabbage Lettuce. Sow seed early in the spring in good soil, and when plants have three leaves thin out to stand about six inches apart in the row, and when plants are of a sufficient size the leaves should be drawn together and tied, in order to blanch the inner ones.

Pkt., 10c; oz., 25c; ½ 1b., 60c

LEEK

Sow early in April, in drills one foot apart one inch deep. When the plants are six to eight inches high, transplant in a deep, rich soil in rows twelve inches apart and six inches in the rows, as deep as possible, so that the neck may be covered and blanched. Draw the earth to them as they grow. The seed may also be sown in September, and the young plants transplanted in the spring. One ounce of seed to 150 feet of drill.

London Flag. This is the sort chiefly grown by market gardeners. It is of excellent quality.

Pkt., 10c., oz., 20c; ¼ 1b., 75c

Musselburg. Large and broad leaves. Flavor mild and pleasant. A good Leek.

Pkt., 10c; oz., 20c; 1/4 lb., 75c

BUY THE BEST

The seeds are the smallest item in your garden account and only from the best can the best come.

"BUY BARNARD'S SEEDS"

MUSKMELON

Prepare hills 4 to 1 feet apart in a rich, moderately dry soil, thoroughly mixing therewith well-rotted manure. Early in May, or when ground has become warm, plant 6 to 8 seeds one inch deep in each hill, afterwards thinning out so that 3 or 4 plants remain. Pinch the vines when blossoming begins, to promote fruitfulness, and cultivate till the vines cover the ground. To combat insect attacks, dust with ashes, lime or Slug Shot. See "Cucumbers" for method of early starting.

One ounce of seed for 60 hills; 2 to 3 pounds per acre in hills.

Mango Melon, or Vine Peach. About the orange, sometimes called "Orange Melon." Fine for sweet pickles or preserves.

Right House Facts. Right House of Size of an orange, sometimes called "Orange Melon." Fine for sweet pickles or preserves.

Right House Facts. Right House of Size of an orange, sometimes called "Orange of Size of An orange of Size of An orange, sometimes called "Orange of Size of An orange of

arden Lemon. Similar in size and habit of growth to Mango Melon, but with sharper flavor. Garden Lemon. Similar Pkt., 10c; oz., 25c

Green-Fleshed Varieties

Rocky Ford. Nearly every leading hotel and restaurant in America uses large quantities of this famous melon, which is just the right size to serve in halves. The ripe melons are beautifully netted and ribbed. Solid green flesh, sweet and melting. We offer a splendid strain of seed of this fine melon, grown for us at Rocky Ford, Colo., saved from specimens that were especially selected for seed purposes.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.25

Milwaukee Market. Of recent introduction this excellent salmon fleshed melon is becoming very popular on the Chicago and Milwaukee market. A productive medium size melon that commends itself to market gardeners.

Pkt., 10c; oz., 25c; 1/4 lb., 75c; lb., \$2.25

Honey Dew Melon. The delicious honey-like flavor of this new melon created a sensation wherever used. The fruit is of good size, weighing 6 to 8 pounds; light cream colored, smooth skin with thick, rich and sweet flesh of light green color. The rind is thin but tough and so close that the rich flesh is practically sealed up where it keeps in finest condition for several months after it is ripe. Pkt., 10c; oz., 20c; 1/4 lb., 60c

Extra Early Hackensack. An early strain of the well-known large Hackensack. Very popular with the market gardeners as it is the first of the large melons to be ready for market. The fruit is of good size, round and heavily netted. Flesh green, very sweet and good flavor. Pkt., 10c; oz., 15c; ¼ 1b., 50c; 1b., \$1.40

Extra Early Knight. The earliest high quality melon for the far north, and a good shipper. Medium sized, oblong, with a peculiar and distinct "neck" at the stem end. Deep green skin turning golden at maturity, closely gray netted, distinctly ribbed. Medium green flesh blending to light pink toward center, fairly thick and very sweet

Pkt., 10c; oz., 20c; 1/4 lb., 50c; lb., \$1.75

Montreal Market. A very large melon, extensively grown in the vicinity of Montreal. Deep green flesh of excellent quality. The fruits are round, flattened at the ends, and have very broad ribs. Pkt., 10c; oz., 20c; 1/4 lb., 50c; lb., \$1.50

ORANGE OR SALMON-FLESHED VARIETIES

Osage. The best known and most in demand of the red-flesh varieties. Medium size, oval in shape; skin very dark green and slightly netted. The flesh is a rich salmon color, very thick and sweet and of delicious flavor.

Pkt., 10c; oz., 20c; 1/4 lb., 50c; lb., \$1.75

Emerald Gem. Well-known early, variety of recognized merit. Of medium size, nearly round. Smooth, dark-green skin, salmon-colored flesh. One of the best for home use.

Pkt., 10c; oz., 20c; 1/4 lb., 50c; lb., \$1.50

Paul Rose. This melon is a cross between the Osage and Netted Gem, and about ten days earlier than the former. Of a size very suitable for shipping in baskets, it is becoming very popular in the market, especially where its superior qualities are known. The thick, red flesh is exceptionally sweet.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.50

Pollock's No. 10-25. Of Rocky Ford qualities, but with salmon-tinted flesh, shading to light green midway to the rind. Of uniform size and well netted, popular for shipping. Pkt., 10c; oz., 20c; 1/4 lb., 50c; lb., \$1.75

Burrell's Gem. Very tough but thin rind, heavily netted. The flesh is an attractive reddish orange and fine-grained, thick and sweet. Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., \$1.25

Tip Top. Hardy, vigorous-growing melon of Tip Top quality, commendable to either the truck grower or private gardener. Large size, yellow flesh, juicy and sweet.

Pkt., 10c; oz., 25c; ½ 1b., 60c; 1b., \$2.00

Hoodoo. A new melon with many good qualities. Its size is about that of the popular Rocky Ford, which appeals to the shipper, while the delicate flavor of the thick, red flesh should commend it to every private gardener.

Pkt., 10c; oz., 20c; ½ 1b., 50c; 1b., \$1.75

To pound rate add for parcel post.

WATER MELON

To raise good Watermelons, it is essential that the plants have a good start, and it is important to prepare hills about 6 feet apart, by thoroughly working into the soil an abundance of well rotted manure—hen manure, sheep manure, or other forms rich in nitrogen, being most desirable. Over this highly manured soil put 4 to 6 inches of fresh earth and plant the seeds in this, covering them about an inch deep. It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. Put 5 or 7 seeds in a hill. When the plants have formed the first pair of rough leaves, they should be thinned so as to leave three of the strongest and best to each hill. Frequently watering of the plants with liquid manure will hasten the growth, thus diminishing the danger from insect pests. If the striped beetle appears use tobacco dust or Slug Shot freely. The best protection against blight and insect pests is to maintain a vigorous and continuous growth. It is desirable to change the location as often as practicable. Do not plant on land where Watermelons were grown before, as the vines exhaust elements in the soil which makes succeeding crops defective. Watermelons are less subject to "bug" depredations and disease attacks than Muskmelons. At the same time they are more easily hurt by strong spray mixtures, and caution in the use of such mixtures is advisable.

One ounce for 30 hills—4 to 5 pounds for an acre.

Cole's Early. For the northern states this is desirable on account of its extreme earliness and vigorous growth. This is the easiest to grow of all the Watermelons. If you have failed with other sorts, you may succeed with Cole's Early. It is the best variety for the family garden, primarily so on account of its extreme earliness, but mainly because it has all the qualities necessary to a perfect variety for this purpose. Its remarkably early character entirely removes the most common hindrance to its cultivation. In places where Watermelons never grew before, Cole's Early is now supplying the tables of those who grow it, just as bountifully and with just as good melons as in the sunny regions of the South. It is good in every respect, producing a liberal crop of Melons, not large, but in abundance and of delicious quality. The deep red, fine grained flesh ripens from heart to rind, while its rich color and luscious flavor are tempting to the most exacting and critical taste.

Ptt., 10c; oz., 15c; ¼ 1b., 25c; 1b., 85c

Klekley Sweets, or Monte Cristo. While the skin is perhaps too thin to admit of the

is perhaps too thin to admit of the melons being shipped great distances, it is most desirable to plant for home use or local markets. The melons themselves are very large, oblong in form, with dark green skin, thin rind, which is very brittle. Flesh is bright scarlet, with solid heart, deliciously crisp. 90 days.

Pkt., 10c; oz., 15c; ½ 1b., 25c; 1b., 85c

Tom Watson The most popular of shipping melons, often reaching 40 lbs. Size 20x12 inches. Oblong in shape, with a thin but tough rind. Dark green, somewhat mottled. The flesh is solid and sweet, of a very handsome scarlet throughout. The many merits of this melon recommend it to the shipper. 95 to 100 days.

Pkt., 10c; oz., 15c; ½ 1b., 25c; lb., 85c

Halbert's Honey. As fine a medium early, home market melon as is grown. Second only to Kleckley's Sweet in popularity for the home and nearby market. A long, dark green melon of recent introduction. Rind very thin and brittle. Flesh bright scarlet, solid and sweet. Pkt., 10c; oz., 15c; ¼ 1b., 25c; 1b., 85c



Kleckley Sweets, or Monte Cristo

Peerless, or Ice Cream. A hardy and productive melon, oval shape, bright green mottled. Flesh light pink, firm and sweet. Not adapted to shipping.
Pkt., 10c; oz., 15c; 1/4 lb., 25c; lb., 85c

Phinney's Early. Hardy, robust growing variety, oblong shape. Rind light and dark green mottled. Flesh pink, of very good quality. Pkt., 10c; oz., 15c; ¼ 1b., 25c; 1b., 85c

Sweetheart. A light green melon, slightly mottled, nearly round in shape. Very thin rind, bright red flesh, fine grained and very sweet. Ripens down close to the rind. Late but very large and fine shipper.

Pkt., 10c; oz., 15c; 1/4 lb., 25c; lb., 85c

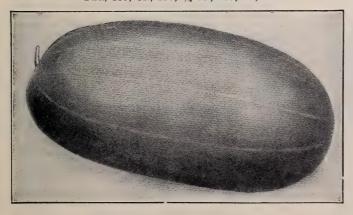
Alabama Sweet. Good shipping melon. Oblong in shape; very thin, but tough rind, dark green mottled. Flesh bright scarlet. Pkt., 10c; oz., 15c; ¼ 1b., 25c; 1b., 85c

Cuban Queen. Oval-shaped. Very productive. Rind light and dark green mottled. Flesh scarlet, 95 days to mature.

Pkt., 10c; oz., 15c; 1/4 1b., 25c; 1b., 85c

Irish Grey. A splendid new melon about the shape of "Tom Watson." Flesh thick and bright red, very sweet. Rind thin, but tough. Light grey color, 95 days to mature. Pkt., 10c; oz., 15c; 1/4 lb., 25c; lb., 85c

Citron. Used for pickles and preserves. Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., \$1.00



ONION SEED

Sow the seed, as soon as the ground can be made ready, about one-half inch deep. The quantity will vary with the soil, the seed used and the kind of onions desired. Thin seeding gives much larger onions than thick seeding.

As soon as the young plants can be seen in the rows give a shallow working either with rake or

than thick seeding.

As soon as the young plants can be seen in the rows give a shallow working either with rake or some tool that pulverizes well the whole top soil. Many onion growers consider about one inch apart as a perfect stand, thin out to 3 or 4 inches apart if large onions are wanted. Work the crop again in a few days with a hoe or tool that cuts the ground over, this time as closely as is possible to the row without injury to the young plants; follow as quickly as possible with a thorough hand weeding. The ground should be cultivated once a week if possible and any remaining weeds pulled out by hand every two weeks. For best results these operations should be continued until the crop occupies the ground.

To raise onion sets from seed, use good ground prepared as for large onions and sow the seed very thick in broad drills, using forty to sixty pounds per acre. If the seed is sown thin, the bulbs will not only be too large for sets but will not be of the right shape, and if sown thick on poor land they will be necky or bottle shaped. Onion seed sown for sets may be planted somewhat later than if a crop of large bulbs is desired.

It will not do to store onions in large piles or masses, particularly in warm weather, or if they are the least moist, but if perfectly dry when gathered and stored in crates, they can be kept in fine condition till spring. The best way is to keep them dry, giving bottom ventilation if possible, and at a uniform temperature of about 32 degrees to 34 degrees Fahr.

One ounce for 100 feet of drill; 4 to 5 lbs. for an acre.

Barnard's Yellow Globe. This splendid strain

Barnard's Yellow Globe. This splendid strain of the high globe type onions matures early and very uniformly. The neck is small and ripens down close to the bulb. Color is an attractive bright yellow so much in demand in all the markets. Bulbs are fine grained, solid and excellent keepers. Our present fine strain of this variety is the result of careful selection of the bulbs at planting time with reference to their size, shape and color. Large onion growers and market gardeners will do well to try this variety.

Pkt., 10c; oz., 60c; ¼ 1b., \$2.25; 1b., \$8.00

Sweet Spanish we have no sets of this variety.

We have no sets of this variety.

Very large, light yellow, globe shaped, small top, good shipper.

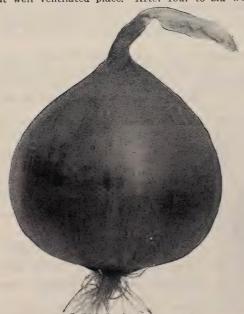
This Onion was brought from Spain several years ago.

The unusual mildness and excellent flavor made this onion popular at once.

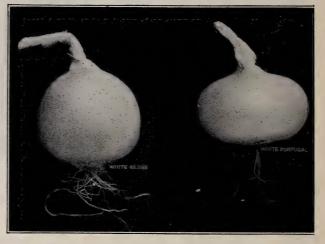
It is a good keeper and not prone to smut; we do not say it is immune, but the grower gives the following directions for curing and keeping this onion, and if followed there is little likelihood of smut.

Allow the onion to thoroughly mature until the tops have fallen off and dried.

Then pull the onions and allow them to remain in the field in rows well covered with the tops, which after a week of favorable weather become as dry as chaff. The tops are then rubbed off and the onion put in crates and stacked loosely in a shaded but well ventilated place. After four to six weeks



Barnard's Yellow Globe



the onion is so thoroughly cured it may be safely

shipped.

It will be very profitable to the grower who will plant this onion.

and home use. A heavy cropper and good keeper. Skin silvery yellow; flesh white, comparatively mild and well flavored.

Pkt. 1000 Yellow Globe Danvers. A

Barnard's Select Red Globe. Handsome both as to shape and color. A selection of the Southport strain of fine quality for the home garden. A splendid shipper. Growers for the southern market should raise this variety. It is a good yielder and matures early. Color a rich dark red; thin skin.

Pkt., 10c; oz., 60c; 1/4 lb., \$2.25; lb., \$8.00

Southport White Globe. One of the most beautiful size, fine quality, 90 days from seeding. Market gardeners find it an excellent sort of plant for bunching. Pkt., 10c; oz., 65c; ¼ 1b., \$2.50; 1b., \$9.00

Southport Yellow Globe. Large and fine-shaped globe onion of excellent quality, well known to all onion growers, and regarded by them as one of the best

Pkt., 10c; oz., 60c; 1/4 lb., \$2.25; lb., \$8.00

Southport Red Globe. Splendid variety, grown very extensively and of good color, 90 days to mature.

Pkt., 10c; oz., 55c; 1/4 lb., \$2.00; lb., \$7.50

TO POUND RATE ADD FOR PARCEL POSTAGE

See second page of cover.

ONION—Cont'd

Prizetaker. Very large mild-flavored onion, sometimes called "Mammoth Spanish." Attains its largest size when started in hotbeds and transplanted. It is quite globular in form with a light yellow skin, and in quality almost equal to the imported onions. A favorite variety to grow for exhibition purposes.

Pkt., 10c; oz., 45c; 1/4 lb., \$1.60; lb., \$7.00.

Alisa Craig. This is an onion of the Prizetaker type, which like that variety, in order to obtain best results, should be started in hotbeds. Grows to an even larger size than the Prizetaker. It is lighter in color, skin almost white. It is very fine grained, with mild flavor. It is now being grown quite extensively and profitably by market gardeners. Should have a place in the home garden.

Pkt., 10c; oz., 40c; ½ 1b., \$1.50; 1b., \$6.50.

Yellow Flat Danvers. This differs from Yellow Globe Danvers in that the bulb is flatter. Being a heavy yielder, it is largely cultivated both for mar-ket and home use. It is also grown to a considerable extent for sets. for sets. Pkt., 10c; oz., 35c; 1/4 lb., \$1.25; lb., \$4.00.

Red Wethersfield. Most popular of the red flat varieties. Grows to a large size and is very productive. Being a good keeper, it is grown largely for shipping and also for onion sets. Color, very dark red.

Pkt., 10c; oz., 35c; 1/4 lb., \$1.25; lb., \$4.00

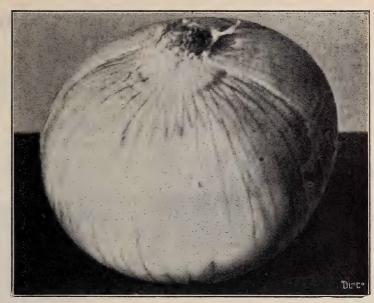
Mammoth Silver King. In this onion are combined these desirable qualities: immense size, fine shape, white flesh of wonderful tenderness and sweetness Matures early. For exhibition purposes and for fancy grocery trade this onion is a desirable one to grow.

Pkt., 10c; oz., 35c; 1/4 lb., \$1.25; lb., \$4.00

Yellow Dutch or Strassburg. This is the kind largely used around Chicago and elsewhere for growing sets. Produces a hand-some set of good shape and color and of splendid keeping qualities, Also will mature into a good marketable sized onion. Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; lb., \$3.50

Australian Brown. Of medium size; brownish yellow color. Very hardy and probably the best keeper of all.

Pkt., 10c; oz., 35c; ¼ 1b., \$1.25; 1b., \$4.00



Prizetaker Onion

White Portugal. An early, white, flat variety. A favorite with set growers, and a good pickling sort. Also forms a fair-sized onion of good keeping quality.

Pkt., 10c; oz., 50c; ¼ lb., \$1.75; lb., \$6.50
White Queen. Fine pickling variety. Sown in February, they will make onions two inches in diameter in early summer. Very early and of rapid growth, and keeps the year round.

Pkt., 10c; oz., 35c; ¼ lb., \$1.25; lb., \$4.00
Crystal White Wax. A white, flat onion, fine for slicing.

Pkt., 10c; oz., 50c; ¼ lb., \$1.75; lb., \$6.00
Early White Welsh Onion. The best kind for green onions; forms no bulb.

Plants can be propagated from seed or divisions, a great saving in cost over top sets. great saving in cost over top sets.

Pkt., 10c; oz., 35c; 1/4 lb., \$1.00; lb., \$3.50

Bermuda Onion Seed

Seed Offered Is Genuine Teneriffe Grown
In very early spring, the handsome oval Bermuda onions reach the northern markets, where their great size at once arrests attention. They are tender and mild in flavor. These fine onions can be grown in our northern climate, but will not attain the size of the imported ones. For best results sow in hotbed and transplant.

Red Bermuda.

Pkt., 10c; oz., 35c; ¼ lb., \$1.25; lb., \$4.00

White Bermuda.

Pkt., 10c; oz., 35c; ¼ lb., \$1.25; lb., \$4.00

Grow Your Own Bermuda Onions

LARGE, DELICIOUS, TENDER

For the first time in this territory we offer Bermuda Onion Plants. These plants give you two months' start over seed, maturing onions of the highest quality. The Bermuda is a good keeper.

Now you may have large, delicious, tender Bermuda Onions right from your own garden. These Bermuda plants are not an experiment. They were thoroughly tried out in this vicinity last year and produced as fine onions as are shipped from Texas.

Hundreds of millions of these plants are now used by professional gardeners. They produce the same fine results wherever used.

Order your plants now and grow your own big Bermudas in your own garden.

Genuine White Bermuda Onion Plants, approximately 100 plants to the bundle. Postpaid, per bundle, 50c; 5 bundles, \$2.00; 10 bundles, \$3.50.

Onion Sets

In private gardens the cultivation of the family supply of Onions from sets has much to recommend it. The amount of labor involved is less, the danger of loss from maggots and other insects is considerably reduced, the crop is surer to grow, and is ready for use weeks in advance of that grown from seed. On a small scale where the cost of sets is not a serious item we urge customers to use them. In fact, the ideal way is to use both sets and seed—the sets for use in the spring and summer, and seed to grow bulbs for winter keeping.

keeping.
Onion Sets should be planted out in autumn, or as early in the spring as the ground is dry enough to work; plant them in rows 12 inches apart, with sets 2 inches apart in the row.

SEEDS BY MAIL. To pound prices please send extra to cover parcel postage. See second page cover.

MUSHROOM SPAWN

Mushrooms are much enjoyed as a table luxury.

The white thread-like substance seen permeating the brick or tablet in which Mushroom Spawn is sold is called Mycelium. The edible part of the Mushroom is analogous to the flower in other plants. The standard sold is in a dormant condition, growth being suspended by withholding moisture. The task for the grower is to cause it to revive and resume growth. This is accomplished by placing the spawn in prepared beds of fresh horse manure and soil, which may be made in a shed, cellar, or under greenhouse benches. Next to proper preparation the most important thing is to maintain a uniform and moist air temperature of 50 to 65 degrees.

Where cellar room is available there is no better place to raise Mushrooms. The cool, moist temperature is admirably suited to the growth of this vegetable.

HOW TO GROW MUSHROOMS

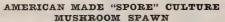
Procure fresh horse dropping from stable—add to it about one-third in bulk of fresh loam from a pasture or sod land. Mix these ingredients by turning the heap over daily so that it will not become too hot. Continue this operation until a sufficient quantity has been acquired to make a bed of the projected dimensions. Keep the heap under cover to prevent it from being rained upon.

Spread the compost evenly over the box or bed to the depth of eight inches, packing it down firmly with a brick. A hotbed thermometer should be placed in the bed. This in a day or two will probably indicate a temperature of 100° or even more. When it declines to 80° or 90° the bed is ready for planting.

With dibble or a sharp stick make holes three or four inches deep all over the bed at twelve inches apart each way. Into each hole place a piece of Spawn about the size of a walnut, covering up with compost and leveling off the surface. The bed should now stand ten or twelve days so that the spawn will have thoroughly run through it. When that time has elapsed, spread fresh loam to the depth of two inches over the surface and firm it down gently with the back of a spade; then cover up with 3 or 4 inches of hay or straw. This completes the whole operation of of planting. of planting.

By commencing in August the first crop is ready in December. A start made in September should bring Mushrooms in January and February. About three to four weeks are required to get off the first crop, after which time top dress with a little more soil and firm it with a brick or spade. The bed will give a second crop in March or April, and sometimes the Mushrooms are better than those of the first production.

> One pound of Spawn is sufficient for a bed 2x6 feet. Postage Must be added if wanted by mail. See Postal Rates, second page of cover.



A very superior article, made in this country from carefully selected spawn, which it is claimed is much more vigorous than the imported article, and will produce Mushrooms of a very superior quality and flavor. The popularity of Spore Culture Spawn is increasing rapidly and many of the large growers are now using it. They claim it is a surer crop. Amateurs have much the best results with this kind. Bricks weigh about 11/4 lbs. Price 1 brick, 30c. 10 bricks, \$2.50.

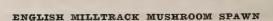
Nasturtium or Indian Cress

The young leaves or shoots are excellent for salads. The green seed pods are greatly esteemed by many for use in mixed pickles. Early in spring sow, preferably in rather light soil, in rows three feet apart and two inches apart in the row, covering one inch deep. When the young plants are about four inches high thin to six to six inches apart in the row. The vines can be supported, if so desired, by stakes, strings or brush.

Tall. Climber, 10 ft. high, ornamental flowers, large seeds.

Pkt., 10c; 02., 15c; ½ 1b., 40c

f. A trailer, requiring no support, smaller but more profuse. Pkt. 10c; oz., 15c; ¼ 1b., 40c



Our celebrated English Milltrack brand (made by the best maker in England specially for our trade) has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied upon to produce a good crop of the best Mushrooms. Commercially it is more planted than any other spawn. It comes in pressed bricks weighing about 20 ounces. They are broken into pieces the size of a walnut and put sidewise in the beds 10 to 12 inches apart each way. Price, per brick, 30c. 10 bricks, \$2.25.

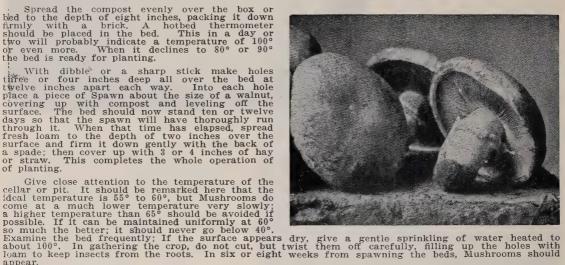
Okra or Gumbo

The young seed pods are used in soups, stews, catsups, etc. Highly esteemed in the South. After danger of frost is past, the ground being warm and in good condition, plant in rows about two and one-half feet apart, covering with about an inch of fine soil firmly pressed down. When about three inches high, thin to about one foot apart in the row.

White Velvet. Bears round, white, smooth pods of extra large size, in great abundance.

Pkt., 10c; oz., 15c; ¼ 1b., 25c; 1b., 85c Improved Dwarf. A distinct early variety. Pods comparatively short.

Pkt., 10c; oz., 15c; 14 1b., 25c; 1b., 856



PARSNIP

Sow seed about half an inch deep early in spring, in deep, rich soil. The seed is slow to germinate and will vegitate sooner by steeping 6 to 12 hours in a liquid manure, diluted with water, and mixed with sand before sowing. When well up thin out to 5 or β inches apart in the rows. Unlike Carrots, they are improved by frost, and it is usual to take up in fall a certain quantity for winter use, leaving the rest in the ground until spring, to be dug as required.

One ounce for 150 feet of drill-5 to 6 pounds for an acre.

Magnum Bonum. Of decidedly pearance, smooth, heavy roots, which are broad at the shoulder, fined grained, and of superior Pkt., 10c; oz., 15c; 1/4 lb., 35c

Hollow Crown. Standard sort, long, sweet and very productive. One of the best for general cultivation.

Pkt., 10c; oz., 15c; 1/4 lb., 35c

Improved Guernsey. A half-long variety of good quality and recommended for the family garden. Pkt., 10c; oz., 15c; 1/4 lb., 35c

Early Round. The earliest. Best for shallow soils. Pkt., 10c; oz., 20c; ¼ 1b., 50c Best

PARSLEY

Soak the seeds a few hours in luke warm water and sow about half an inch deep early in spring, in drills one foot apart. Thin out the plants to four inches.

One oz. will sow about 150 ft. of drill.

Champion Moss Curled. Extra large tender, crimpled and curled. We recommend this variety for either greenhouse or outdoor planting.

Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., 85c

Fine Double Curled. A curled variety having crimped leaves. It is used mostly

Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., 85c

Plain or Single. Plain leaves of excellent flavor. They are longer than those of the

curled parslies. Pkt., 10c; oz., 15c; 1/4 lb., 25c; lb., 75c

Hamburg. The edible portion is the fleshy root. It is highly esteemed for flavoring soups, stews, etc. Pkt., 10c; oz., 15c; ½ 1b., 35c; 1b., 85c



Champion Moss Curled Parsley



Hollow Crown



Chinese Giant Pepper

PEPPER

Peppers are more tender than most vege-tables. In March sow in a hotbed, cold-frame, or box in the window, and transplant about the last of May. Warm, mellow soil, well fertilized, should be used.

One ounce of seed for 1,500 plants.

Chinese Giant. A very large, mild-flavored pepper, of a bright scarlet color when ripe. Excellent for eating and stuffing. A good variety for the market gardener to grow. 200 days from seed. Pkt., 10c; oz., 60c; ½ 1b., \$2.00

Nocera. Sweetest and mildest of all peppers. Can be picked from plant and eaten as one would eat an apple. It is an early fluiting variety and an abundant yielder. The plants make a very handsome appearance in any garden with their showy scarlet fruit, which attains to a large size. Be sure to plant this pepper. Pkt., 10c; oz., 50c; ¼ 1b., \$1.75

imiento. The sweetest Pepper grown, does not contain the slightest trace of fieriness. The plants are extremely productive, and Peppers are medium in size and of a shape which is desirable for filling. It may also be used in preparing salads and for flavoring. The flesh is quite thick and the Pepper may be scalded for peeling the skin off. When fully ripe the Peppers are of brilliant red color and very attractive.

Pkt., 10c; oz., 40c; ¼ lb., \$1.50 Pimiento.

Large Bell, or Bull Nose. A standard variety, of vigorous growth and productive. Fruit of good size, dark green turning to scarlet at maturity; mild, pleasant flavor.

Pkt., 10c; oz., 40c; ½ 1b., \$1.50

Pkt., 10c; oz., 40c; ¼ lb., \$1.50

Sweet Mountain. Similar to Bell;-very popular for stuffed pickles.

Pkt., 10c; oz., 40c; ¼ lb., \$1.50

Ruby King. A pepper of large size, well known and much estebmed by truck growers. When ripe, its color is a beautiful ruby red, very attractive and of good quality.

Pkt., 10c; oz., 40c; ¼ lb., \$1.50

Golden Dawn. Color bright golden yellow, very brilinant and handsome.

Pkt., 10c; oz., 50c; ¼ lb., \$1.75

Long Red Cayenne. Slender fruit; green turning

Long Red Cayenne. Slender fruit; green turning to scarlet. Very pungent and hot. Pkt., 10c; oz., 40c; ¼ 1b.; \$1.50 Celestial. Conical fruits, creamy tinted, turning to scarlet when ripe.

Pkt., 10c; oz., 40c; 1/4 lb., \$1.50

Cherry Red. Smooth, round variety. Fruit glossy scarlet.

Pkt., 10c; oz., 40c; ¼ 1b., \$1.50

GARDEN PEAS

Peas succed best in light, dry, sweet* (see note) soil. Early and Dwarf sorts require richer soil than the late varieties. If manure is used let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the smooth, round sorts as early in spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. From the first sowing, sow every two weeks until June for a succession. Discontinue then until August, when a planting of extra early sorts will often produce a good crop. Sow the seed in drills 2½ to 3 feet apart for Dwarf sorts and four for tall sorts, or in double drills six or eight inches apart, one inch apart in the drill, and not less than four inches deep, since deep planting prevents mildew and prolongs the season. Cultivate well and draw the earth twice to the vines during growth. Stake the tall varieties when they begin to vine. Pick the pods as soon as fit and allow none to ripen on the vines, as they will then cease bearing. Most Peas do best when supported with brush or wire. Figures preceding description of varieties indicate height.

2 lbs. will plant about 100 feet of drill 60 lbs. to 100 lbs. for an acre.

We are now pricing Peas by the weight instead of measure. 1 lb. is a little more than 1 pint. 2 lbs, are a little more than 1 quart.

Postage must be added to price of peas if wanted by mail. See second page of cover.

Early Dwarf and Half Dwarf

Smooth Varieties

Barnard's Leader. 3 ft. A round, smooth pea, in size similar to the First and Best, but more uniform and more prolific. Matures very early. Make first planting as early in the spring as the ground will permit and cover well.

Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

First and Best. 2 ft. A well-known variety; very early and hardy. Planted quite extensively by southern truckers.

Pkt., 10c; carton, 15c; 1b., 30c; 2 lbs. 50c

Alaska. 2 ft. This is the pea used extensively by canners and truckers for the early market. We have a splendid strain of this variety. Much labor has been expended on it with a view of obtaining earliness, productiveness, and even maturity. Our stock now is such that we can recommend it to the most critical buyer.

Pkt., 10c; carton, 15c; 1b., 30c; 2 lbs., 50c

Tom Thumb. 12 inches. Peas smooth and white.

A very hardy, extremely dwarf variety. Good for early planting.

Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 60c

Dwarf Wrinkled Varieties

Little Marvel.

18 inches. The ideal pea for the home garden, early very sweet and Pods borne in pairs; they are about 2½ inches in length, well filled with large peas of delicious flavor. This variety is taking the place of some of the older and better-known dwarf peas. Price. Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 65c

American Wonder. 12 inches. The standard variety of this country for a great many years. Very dwarf; matures early and is vigorous and productive, so well known that it needs but little description here.

Price: Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 65c

Premium Gem. 18 inches. A well-known and very satisfactory variety for the home garden. A little taller and later than the American Wonder. Pods of good size; peas very sweet. Price: Pkt., 10c; carton, 20c; 1b., 35c; 2 lbs., 60c

Nott's Excelsior. 15 inches. The pods average fully one-third larger than those of American Wonder, and while Nott's Excelsior may not always be quite so early by a few days, are all ready for picking at one time. Each pod contains six to eight large peas.

Pkt., 10c; carton, 20c; 1b., 35c; 2 lb., 65c



LITTLE MARVEL

Dwarf Wrinkled Varieties-Continued

Sutton's Excelsior. 18 inches. A splendid pea for the home garden. As early as Nott's Excelsior with larger pods that are well filled with large, sweet peas. Pkt., 10c; carton, 20c; lb., 35c; 2 lbs., 60c

Dwarf Telephone. 18 in. This grand pea is rapidly gaining favor among gardeners of all classes. In habit it is dwarf and stocky. Bears close planting and requires no sticks or supports. The pods frequently measure five inches in length, and are broad, straight, and remarkably well filled. A splendid mid-season variety. Pkt., 10c; carton, 20c; lb., 35c; 2 lb., 65c

Laxtonian. 18 inches. The largest-podded of the dwarf wrinkled peas. A splendid new variety, a favorite with those who grow for the market and ideal for the home. Might be called a Dwarf Gradus. The peas have the same delicate flavor of that variety. Laxtonian matures earlier and is very prolific. If you have not grown this pea, try it this season.

Pkt., 10c; carton, 25c; 1b., 50c; 2 lbs. 90c

Peas—Continued on Next Page

Cartons of Peas, Beans and Sweet Corn
These special packages are designed for those who find a packet too small and a pound more than sufficient. The carton is between the two sizes, and contains a desirable quantity for the family garden.

*Dig up a thrifty clover or pea plant and see the nodules on the roots. These are colonies of the bacteria which enable members of the Pea, Bean and Clover family to fix atmospheric nitrogen for plant food. These bacteria will not grow in a sour soil and such needs ground lime. They are also absent in new soils and can be introduced by a sprinkling of soil from a field where they are found or by inoculating with a culture. (See p. 109, "Nitragin.")

GARDEN PEAS—Continued

Cultural Directions Are Given on Preceding Page

-We offer peas this year by the pound, in-Note—We offer peas this year by the pound, instead of pints, etc.

1 lb. is a little more than 1 pint.

2 lbs. is a little more than 1 quart.

If to be sent by mail see second page of cover.

Half Dwarf Wrinkled Varieties

Gradus, or Prosperity. 20 to 30 inches. A grand, early, large podded wrinthe home garden or truck growers in every section of the country. Pods are from 4 to 4½ inches in length and the peas are unusually large, very sweet and of delicious flavor.

Pkt., 10c; carton, 20c; 1b., 35c

Thomas Laxton. 2½ to 3 ft. Resembles Gradus in many respects. A little earlier and more hardy. Pods not quite as large, but more productive. Considered by our truck growers as one of the very best for the early market. For best results give a suport of some kind.

Pkt., 10c; carton, 20c; lb., 35c

Everbearing. 24 inches. 24 inches. A large-podded, late variety. Good for summer and autumn use. Pkt., 10c; carton, 20c; 1b., 35c

Horsford's Market Garden. 2 to 2½ ft. A popular variety. Extremely prolific. Pods of medium size and borne in pairs. Peas very sweet.

Pkt., 10c; carton, 20c; lb., 35c

Improved Stratagem. 2 ft. A splendid late pea. Foliage and pods dark finches in length, well filled with large peas of best quality.

Pkt., 10c; carton 20c; lb., 35c

Tall Wrinkled Varieties

Pea vines of tall habit of growth require support of some kind. Poultry netting is admirable for this purpose. Sow the seeds in double rows eight inches apart and stretch the wire support between the rows. The ends of the support should be fastened to posts at each end.

Alderman. 4 ft. A grand second early pea. One of the very best in this class for the market gardener. It is a vigorous growing, productive variety, bearing pods of immense size. 5 inches in length. Very handsome dark green color. The peas are large, and in quality sweet and tender. color. The

Pkt., 10c; carton, 20c; 1b., 35c

all Telephone. 4 ft. An old, well-known variety. One of the best of the late maturing sorts. Pods are large, containing 8 to 10 peas of good quality and flavor.

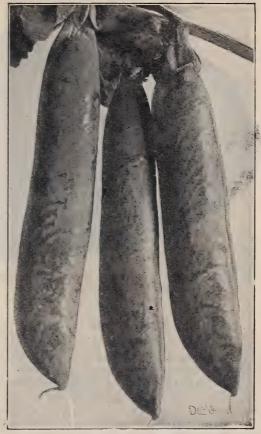
Pkt., 10c; carton, 20c; 1b., 35c Tall Telephone. 4

Champion of England. 4 to 5 ft. A splendid variety and a favorite late pea for the home garden. Pods are large, well filled with peas of good quality.

Pkt., 10c; carton, 20c; lb., 35c

Tall Smooth Varieties

meer. 3 ft. Large, smooth, green pea, some-times called "Large-Podded Alaska." Pop-ular with truckers in certain sections. The peas are smooth and therefore can be planted early without rotting. The season is early, 2 or 3 days later than Alaska, and the pods are almost twice as large, and hence command a high market price. Pkt., 10c; cartor, 20c; 1b., 35c; 2 1bs., 60c Ameer.



Gradus, or Prosperity

Thite Marrowfat. 4 ft. A very hardy, strong growing variety, with thick, large pods about 3 inches in length. Grown as a field crop quite extensively.

Carton, 15c; lb., 30c; 2 lbs., 50c White Marrowfat. 4 ft.

Black Eye Marrowfat. 4 ft. Similar in habit of growth to the White Marrowfat. Considerably in demand in some sections of the South. Peas are white with black eye. Carton, 15c; 1b., 30c; 2 lbs. 50c

Sugar or Edible-Podded Peas. When cooked, they best snap beans. Being hardy, can be planted early in spring. Of strong, upright habit, growing about 12 to 15 inches high. The pods should be gathered while young and boiled whole.

Pkt., 10c; carton, 20c; lb., 35c

Prices do not include postage. Refer to parcel post rate, second page of cover.

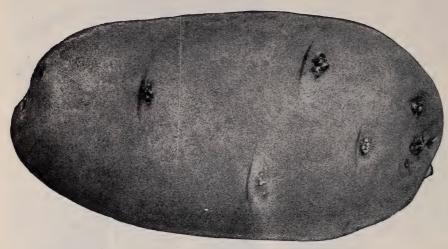
Cartons of Peas, Beans and Sweet Corn These special packages are designed for those who find a packet too small and a pound more than sufficient. The carton is between the two sizes, and contains a desir-able quantity for the family garden.

Peanuts

Plant in May, in drills 3 feet apart, placing the nuts 8 to 12 inches apart in the drill. Cultivate flat and keep clean. By mail postpaid. 1/2 1b., 200; 1b., 300

SELECTED SEED POTATOES

NORTHERN GROWN STOCKS, Selected and Grown Specially for Seed Purposes
Prices of potatoes are subject to market changes and are forwarded by express or freight, as
directed, purchaser paying charges. We assume no risk on potatoes, and ship strictly on purchaser's
responsibility. Sacks contain two and one-half bushels.



Early Ohio-A Grand Potato

Culture—Good well-drained, fibrous loam will produce potatoes under right climatic conditions. For early potatoes, which mature 8 to 10 weeks from planting, the soil must be rich. An old sod of the previous year is best, adding 600 lbs. to the acre (1 lb. to 20 feet of row) of same "complete" fertilizer before planting. Potatoes are planted at various times—both early and late. Cut the tubers so there will be two to three eyes to each piece. Plant in hills or rows about three feet apart and from 15 to 18 inches apart in the row. Spray the leaves of the young plants with a Bordeaux-Arsenate of Lead Mixture as a protection against blight and attacks of beetles. One peck will plant about 100 feet of row, or 100 hills. Ten bushels are required to plant an acre.

Early Ohio

The early Ohio is fully two weeks ahead of the early Rose, and is a general favorite with potato growers and market-men alike, and is the most profitable potato you can grow. The sprouts are very strong, the vines grow erect and are easy to cultivate. Maturing early, it brings the highest price and the land can be used for another crop after it; does well on any soil suitable for potatoes. The tubers grow compact in the hill, are easily dug with very few small ones—nearly every potato is of marketable size, has few eyes, which are even with the surface. Cooks dry and mealy. With heavy manuring, close planting and good culture, a very large and profitable crop can be expected.

Fluctuates, price upon application.

Early Rose

The early Rose still continues one of the most popular varieties. It is productive, of most excellent table quality, and a most satisfactory allaround early variety. Does better on poor land than most sorts. The stock which we offer is of extra quality and the best that can be obtained.

Fluctuates, price upon application.

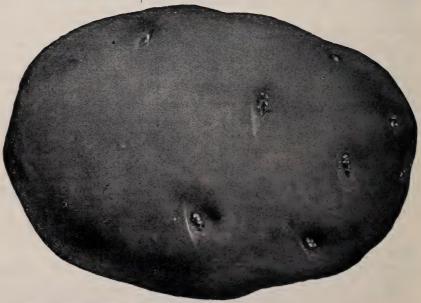
Irish Cobbler

One of the first varieties to be ready for market, and therefore will command a good price. The skin is creamy white, sometimes netted, which is an indication of good quality; eyes are strong, well-developed, and but slightly indented. The flesh is white and of fine flavor. Price upon application.

White Early Albino

The skin and flesh are extremely white, of exceptionally good cooking quality and very prolific, fully as early as the old Early Rose in maturing, and particularly valuable for the early market by reason of its fine shape and early maturity. The vines grow erect, and it is one of the best early varieties to withstand blight and disease. Plant this potato early in good soil and give it good cultivation and pleasing results are sure at harvest time. One grand thing in favor of this early potato is its great keeping quality.

Price upon application.



POTATOES-Continued next page.

POTATOES—Continued

Green Mountain

Green Mountain is fast becoming the most popular variety in the potato counties of the North. It is somewhat earlier than Rural New Yorker and does especially well on sandy soils. In some sections they even call Green Mountain an early variety. We would call it about medium in season. Is a strong, vigorous grower with an abundance of bushy vines with light green leaves and pure white blossoms. The tubers are slightly oblong and broad, with a thick netted skin, cream color rather than white. The color and the thick netting indicate fine cooking qualities. Green Mountain is hard to beat for an eating potato, as it cooks up dry and mealy and has a peculiarly fine flavor. As a yielder Green Mountain is near the top and on light soils and sandy soils is usually ahead of Rurals in yield.

Fluctuates, price upon application.

Rural New Yorker No. 2

Rural New Yorker is the most popular main crop variety in cultivation today. The Rural type does the best, as a rule, on clay soils, and black soils. It is easily grown, a good keeper and always yields well, while its desirable shape, pure white skin and shallow eyes make it a good seller.

Fluctuates, price upon application.

Carman No. 3

A Grand Main Crop Potato

One of the greatest yielders ever introduced. It may fairly be claimed that it does not yield many small tubers. It bears its tubers very close to the plant, a single turn of the fork turning out every potato. It is of the largest size and of the shapeliest form. It is a perfect keeper, that is, it will not sprout up to planting time, unless kept in a warm place. Both skin and flesh are of extreme whiteness. Eyes few and shallow. Late in ripening. The introducer says our claims for "Carman No. 3" are: It is the handsomest large potato ever produced. It will out-yield any other potato whatever. Practically every potato is a marketable size. Its table qualities are fully up to the highest standard, it has no hollow hearts and no dark parts. We are confident that it will soon be the most popular variety for the home garden and field culture, on account of its productiveness.

Price upon application.

Seed Sweet Potatoes

These we can supply in any quantity to those who want planting stock for sprouting plants. They are generally put in the hotbed from the 10th to 20th of April. Prices on application.

Potatoes are subject to market changes. Potatoes are forwarded by express or freight, as directed, purchaser paying charges. We assume no risk and ship strictly on purchaser's responsibility. Sacks contain two and one-half bushels.

PUMPKIN

The seeds may be planted with corn or potatoes, but may prove more profitable raised in fields by themselves. Sow early in May in hills eight feet apart. For monster pumpkins for exhibition purposes plant Mammoth Tours in very rich ground and feed liberally with liquid manure.

One ounce will plant 30 to 50 hills.

Small Sugar. One of the best for the home garden.

An excellent variety for pies. Nearly round, 10 to 12 inches in diameter; rich orange color. Flesn thick, fine grained, and very sweet.

Pkt., 10c; oz., 15c; ½ 1b., 35c; 1b., \$1.00

Winter Luxury. A fine cooking sort, 10 to 12 inches in diameter. Golden yellow, netted somewhat like a muskmelon. One of the very best to store for winter use.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.40

Tennessee Sweet Potato. This is an old standard pumpkin. Somewhat pear-shaped. Skin and flesh creamy white. An excellent keeper.

Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., \$1.25

Japanese Pie. A Crookneck Sort. Seeds peculiarly sculptured. Ripens early. Flesh salmon-colored, fine-grained and sweet.

Pkt., 10c; oz., 15c; 1/4 1b., 40c; 1b., \$1.40

Cushaw, Green Striped. Large crookneck pumpkin.

Cream - colored, striped with green. Very popular in the South.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.40

Yellow Cushaw. Similar to the above, except in color.

Pkt., 10c; oz, 15c; 1/4 1b., 40c; 1b., \$1.40

Large Cheese. A large buff-colored variety of distinct shape, used extensively for canning.

Pkt., 10c; oz., 10c; 1/4 lb., 20c; lb., 75c

Mammoth Tours. Grown chiefly for exhibition purposes and for stock feed. It grows to an enormous size, frequently weighing over one hundred pounds. Skin salmon color; flesh yellow. Keeps a long time.

Pkt., 10c; oz., 15c; ½ lb., 40c; lb., \$1.25

Connecticut Field. The best cornfield pumpkin. Grown largely for stock purposes, but is very suitable for table use; an excellent keeper. Oz., 10c; ½ 1b., 30c; 1b., \$1.00



Sweet or Sugar Pumpkin

RADISHES

Sow early and often, in good, fibrous loam, especially if quite sandy, summer Radishes will make a crop in 4 to 6 weeks from sowing. The soil should be well prepared, and fertilizers may be used freely. Have the rows a foot apart, and sow just seed enough (2 in. apart) so that they will not require thinning. Any little spot that becomes available during summer may be utilized for planting Radishes. The short or turnip-rooted sorts are quickest and easiest to grow, and good for forcing also. On greenhouse bench or in frames the rows need not be more than 4 inches apart.

One ounce of 100 feet of drill-8 to 10 pounds for an acre. To pound rate add for parcel postage.

OLIVE, GLOBE AND TURNIP-SHAPED VARIETIES

Barnard's Early Scarlet Globe. A round, red,

shaped Radish, with small tops and of very quick growth, deserving general cultivation on account of its rich scarlet-red color, almost crimson and its white, crisp, tender flesh. The roots often grow one inch long by one and one-eighth inches in diameter before becoming pithy. This is a standard variety for early outdoor planting for the home garden and market.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.00

Barnard's Scarlet Turnip White Tipped. One of the

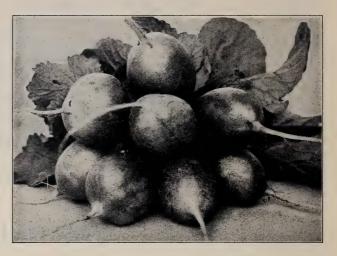
best early Radishes for the home garden and a great favorite in large markets for early planting outdoors. The roots are

nearly round, slightly flattened on the underside. The color is very bright, deep rose-carmine scarlet with a distinctly white tip. The flesh is white and of the best quality. The stock we offer is exceptionally attractive in its splendid coloring. The scarlet is unusually deep and affords a distinct contrast with the large clear white tip.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.00



Scarlet Turnip White Tipped



Barnard's Early Scarlet Globe

French Breakfast. An oblong-shaped radish. Fine for open ground or forcing. Valued for its excellent quality and fine color, which is a beautiful scarlet on the body and white at the extremity. Flesh white, tender and mild. Pkt., 10c; oz., 15c; ½ 1b., 35c; 1 1b., \$1.00

Yellow Summer. Turnip-rooted. Can be sown late, stands heat well. Skin light yellow, flesh white. Pkt., 10c; oz., 15c; ¼ 1b., 35c

Sparkler. A splendid radish of the same type as the Scarlet Turnip White Tip, but larger and showing more white, practically the whole lower portion being white and the upper part deep scarlet. This radish is not only very showy, but of the finest quality, and is popular with private gardeners as well as growers for the market.

Pkt., 10c; 0z., 15c; ½ 1b., 40c

Early Scarlet Turnip. An old, well-known variety; bright scarlet, solid white Pkt., 10c; oz., 15c; ¼ 1b., 35c

Early White Turnip. Very much like the scarlet; a trifle earlier in maturing. Skin and flesh pure white. Pkt., 10c; oz., 15c; ¼ lb., 35c

Crimson Giant. A large globe-shaped variety. Handsome deep scarlet; thin skin, solid white flesh of best quality. Attains a large size without becoming pithy or losing its crispness. Pkt., 10c; oz., 15c; 1/4 lb., 35c

Large White Summer. This is a radish which is quite popular in certain sections. Nearly round in shape. Pure white. Attains a size of 3 inches in diameter without losing any of its good qualities.

Pkt., 10c; oz., 15c; ¼ lb., 35c

RADISH—Radish seed can be planted about as early as any of the vegetables. It is important that Radishes be grown quickly, for if they come on slowly, they will be pithy and strong. Successive plantings may be made every two weeks.

RADISHES-Continued Next Page

RADISH—Cont'd.

Half Long and Long Varieties

White Icicle. The finest long, white Radish; the young Radishes are ready for use in 25 days, and continue to grow, fully retaining their crisp tenderness and mild flavor until quite large. These Radishes are transparent white, have small tops, allowing close planting, and are very crisp and brittle. A feature greatly in its favor is that it remains in good condition while growing for a long time, thus allowing a continuous pulling from the same planting.

Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., 90c

Cincinnati Market. The finest Long Red Radish for forcing and out-sells any other that is put in competition with it on the market. Being long standing, it is also an extra fine sort for the home garden, entirely exempt from any tendency to become pithy or hollow.

Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., 90c

Chartier. One of the very best for outdoor sowing in summer. Roots bright crimson in upper portion, shading to white at the tip. Can be eaten when quite small. Remains solid and crisp.

Pkt., 10c; oz., 15c; 1/4 1b., 35c; 1b., 90c

Long Scarlet Short Top. A well-known variety and extensively planted. Roots 6 inches in length, about one-third of which grows above the ground. Color, bright red.

Pkt., 10c; oz., 15c; ½ lb., 40c

Cardinal or Brightest Long Scarlet. Vivid scarlet, tipped with white. For so long a radish is very early, being ready for use in 25 days.

Pkt., 10c; oz., 15c; ¼ lb., 40c

White Strassburg. A good, late radish, oblong shape.
Both skin and flesh are pure
white. Roots when fully grown, about 6 inches
in length and 2 inches in diameter.
Pkt., 10c; oz., 15c; ¼ 1b., 40c

Thite Stuttgart. Another good summer radish, somewhat turnip-shaped. Grows quickly and attains a good size. Skin and flesh pure white and quality excellent.

Pkt., 10c; oz., 15c; ¼ lb., 40c White Stuttgart.

RADISH

Winter Varieties

These grow to large size, have firm hard flesh and can be kept in good condition for use all winter by packing the roots in moist sand or soil in a cool cellar before the ground freezes in the fall. To have them crisp and free from woodiness the seed should not be planted until late in the summer, as if planted too early the roots would be apt to become hard and woody before it is time to put them away in the fall. A good rule to follow is to sow the seed at the same time as you would seed for winter turnips, and where only a small supply is needed the seed could be sown in the same patch with the turnips.

Long Black Spanish. A long, very hardy radish. Skin nearly black; flesh pure white. Very well known and extensively planted. Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., 90c

Round Black Spanish. A large, turnip-shaped radish. Skin and flesh same variety. Quality about the same. Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., 90c

Chinese White. A large, white smooth skin radish, cylindrical in shape, 6 to 8 inches long and 2 or 3 inches in diameter. Mildest flavored of the winter sorts.

Pkt., 10c; oz., 15c; 1/4 lb., 35c; lb., 90c

Chinese Rose. Not quite as large as the white variety and more pungent. Skin bright rose, flesh white. A splendid keeper, and grown largely for the market.

Pkt., 10c; oz., 15c; ¼ lb., 35c
To pound rate add for parcel postage.

GARDEN NOTES

Plant a Garden in Advance-

It saves time in the spring and by keeping the ground occupied all summer makes the returns greater.

Have a wide book, draw a plat of the garden to scale, and locate each row of vegetables or flowers.

Adopt a standard width of row, that much of the weeding and soil stirring can be done with a wheel hoe (see page 112, for the handy Planet

Keep notes of results or suggestions on the following pages. Do this each year. (See "Garden Guide," page 174. Paper, \$1.10.)

Proper Fertilizers

Plants vary in their needs.

Leaf crops—Lettuce, Cabbage, Celery, Spinach, etc., need nitrogen with some potash and phosphate.

Root Crops-in general need more of the potash and phoshorus, with some nitrogen to stimulate growth.

Well rotted manure from a stable where grain is freely used is probably ideal in that it supplies humus to lighten the soil, together with the needed plant foods.

If this cannot be had, Sheep and Cow Manure (see page 108) in bags is useful, adding some quick acting aid like nitrate of soda or some well balanced commercial fertilizer.

Garden Notes

Rotate Crops-

Repeated planting of the same crop exhausts the soil quicker for each plant needs its special food

Germs of disease and insect pests tend to multiply through repeated cropping and are less injurious if the planting is in new ground.

No member of the cabbage family should follow another the same or succeeding year. same is true of root crops.

Fall Garden Clean-up

Much can be done in the prevention of insect attacks on next year's garden crop if the garden is cleaned of crop remnants such as old vines, stalks and decayed vegetables. All remnants should be gathered and burned or buried deeply. Many of our most troublesome pests feed in the late fall on the part of this year's crop which is not used, states T. L. Guyton, Chief Entomolo-gist, Pennsylvania Department of Agriculture. The striped cucumber beetle and the squash bug are found in great numbers on old squash vines, discarded, partly rotted cucumbers and pumpkins. The cabbage aphid is numerous on old cabbage stubs from which the head was removed earlier in the season. The same is true of insects of many other garden crops. Not only will the number of overwintering insects be made less by this clean-up but the overwintering quarters of many insects will be destroyed. Burning or burying crop remnants will also help in the control of plant diseases.



Rhubarb Plant

RHUBARB

Good plants are easily grown in any good garden soil. Sow seed thinly in shallow drills a foot apart, thin to 4 to 5 inches. Keep soil loose and free from weeds. The plants are liable to vary considerably. Pick out the strongest and best. In fall or spring following, transplant to the permanent bed, 4 feet apart each way, in deep warm and very rich soil. For winter forcing take up two-year roots in late fall, let them freeze—then bed close together on cellar bottom or under greenhouse bench in the dark, and delicate shoots will grow.

One owner will produce 300 to 500 plants

One ounce will produce 300 to 500 plants

ictoria. Leaf stalks tall and large. Sometimes weighing 2 lbs. each. Skin thick and red stained. Pulp quite acid. Productive and profitable for market gardeners.

Pkts. 10c; oz., 20c; ½ 1b., 35c; lb., \$1.15 Victoria.

The earliest variety grown. Desirable for market or family garden.

Pkts., 10c; oz., 20c; ¼ 1b., 35c; 1b., \$1.15 Linnaeus.

RHUBARB ROOTS-See Plants and Roots, Page 78

SALSIFY

Or Vegetable Oyster

Soil and culture should be the same as for snips. Make sowing as early as practicable in spring. Salsify is boiled like parsnips or carrots, or is half-boiled and grated, then made into balls which are dipped into batter and fried like oysters.

Mammoth Sandwich Island. A new and improved type producing roots of nearly double the size and weight of the old sort, and in every way preferable. Much valued by market gardeners, as it grows stronger and is less inclined to branch.

Pkt., 10c; oz., 25c; ½ lb., 75c; lb., \$2.50

Black Salsify or Scorzonera Similar to above, but skin is black.

Pkt., 10c; oz., 25c; ½ 1b., 75c; 1b., \$2.50

Sorrel

Sow thinly in shallow drills about one foot apart Remove seed stalks as soon as formed.

Large Leaved French. Used for soups and salads.

Its green leaves have a pleasant acid flavor.

Pkt., 10c; oz., 20c

Postage Must Be Added to Pound Price if Wanted Mail. See Postal Rates, Second Page of Cover. by Mail.

SPINACH

This is an important crop for the market gardener. It is of easy cultivation. Sow for main crop in September, either broadcast or in drills one foot apart and one inch deep, in rich soil; the stronger the ground the more delicate and succulent will be the leaves. Protect during the winter with hay or

straw. For spring and summer use, sow as soon as the ground can be worked, and every two weeks until May. Fails in hot weather. 1 oz. for 100 ft. of drill; 10 to 12 lbs. per acre

To pound rate add for parcel postage.

Bloomsdale or Savoy Leaved. Of upright growth: leaves curled and crimpled, thick and fleshy. Keeps well after cutting. Suitable for fall sowing.

Oz., 10c; 1/4 lb., 15c; lb., 40c

ctoria. Large, very dark green leaves, slightly crimpled. Remains in good condition for market for a long time. A newer variety that is becoming very popular with the truckers.

Oz. 10c; 1/4 lb., 15c; lb., 40c Victoria. Large,

King of Denmark (Antvorskov). The best longremaining two weeks longer than others before bolting to seed. Plant vigorous and spreading; leaves large, rounded, crumpled and blistered, deep green in color. Bids fair to replace all others for spring planting.

Oz., 10c; ¼ 1b., 20c; 1b., 50c

ıliana. A splendid new long season variety, an improved Victoria. Leaves round and thick of handsome glossy dark green color. The best summer spinach. Per Packet, 10c; 1b., 50c

Giant Thick Leaved. An early variety; very hardy and of good quality. Large round leaves, nearly smooth, of dark green color; favorite with market gardeners.

Oz. 10c; 1/4 lb., 15c; lb., 40c

Long Standing. Leaves dark green and thick. Not inclined to run to seed for a long time. Popular with market gardeners.

Oz., 10c; 1/4 1b., 15c; 1b., 40c

Prickly Winter. Use for fall sowing, as it is extremely hardy. Seeds prickly, leaves not so large as those of other varieties.

Oz., 10c; ¼ 1b., 15c; 1b., 40c

New Zealand. Yields an abundance of the tenderest Spinach during the hottest months of the year, or in dry arid localities where the ordinary Spinach runs to seed. The seed is sown where the plants are to stand. The ends of the branches and leaves are tender and will supply good greens all summer.

Pkt., 10c; oz., 15c; ½ 1b., 30c

Swiss Chard or Spinach Beet

Also called Sea Kale Beet. The middle of the leaf, or midrib, is cooked and served like asparagus. The other portions of the leaf may be used like spinach. This beet does not make a large root, but is a delicious summer vegetable when cut young and used for "greens." There are several varieties of Swiss Chard. We recommend the Lucullus where the rib of the leaf is to be used. When wanted as a substitute for spinach, the Yellow Cutting variety is the better. Sow seed one inch deep. One ounce will sow 100 feet of a row.

Swiss Chard—Giant Lucullus. Pkt., 10c; oz., 15c; ½ 1b. 30c Swiss Chard—Yellow Cutting. Pkt., 10c; oz., 15c; ¼ 1b. 30c



Spinach, Victoria

SOUASH



Warted Hubbard Squash

Squashes do best in warm and very rich soil. Plant in well manured hills, same as Melons or Cucumbers, the bush varieties 4 foot apart each way, the winter sorts 8 to 10 feet each way. Use seed freely, 5 to 7 seeds to the hill, to provide for losses by insects. When danger of such loss is past, thin to 3 or 4 plants to the hill. To repel the squash vine borer, throw a handful of tobacco dust close around the plants. The large, strong-smelling black squash bug can be kept in check by handpicking, going over the vines at frequent intervals. For yellow-striped beetle and blight, spray early and repeatedly with Bordeaux Arsenate of Lead Mixture. Winter Squashes may also be grown in cornfields in the same manner as pumpkins. Gather before frost, hang apart over coal bin. DUST WITH FINE ASHES and they will keep till May.

SQUASH—The Squash are tender tropical plants and are very sensitive to the cold, therefore the seed ought not to be sown until the middle of May or later.

One ounce of seed for 25 to 50 hills (according to size of seed), 3 to 4 pounds for an acre.

Summer Varieties

Mammoth White Bush An early, round, flat squash:
color clear white, handsomely scalloped. Called Patty Pan in the South.
Largely planted in every section of the country.
One of the very best of the early varieties.
Pkt., 10c; oz., 15c; ½ 1b., 35c

Mammoth Yellow Bush. Same as above, except in color, which is a bright yellow. Early and of good quality.

Pkt., 10c; oz., 15c; ¼ lb., 35c

Mammoth Summer Crooknock. A well-known and standard variety.
Grows from 18 inches to two feet in length. The shell is hard and warted and of an attractive bright yellow color. The thick flesh is of good quality.

Pkt., 10c; oz., 15c; ½ 1b., 40c

Fall and Winter Varieties

Hubbard. A favorite winter squash. Shell dark green and extremely hard. Flesh rich orange; dry and sweet. Splendid for cooking or pies.

Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.25

Warted Hubbard. Same as above, except that the shell is rough or warted. This variety is an excellent keeper. Largely grown for the market.

Pkt., 10c; oz., 15c; 1/4 1b., 40c; 1b. \$1.50

Orange Marrow Handsome appearance; creamy colored. Pkt., 10c; oz., 15c; ¼ 1b., 30c

Fordhook. This squash can be either used as a summer or winter variety. Color bright yellow, meat thick and good quality.

Pkt., 10c; oz., 15c; ¼ 1b., 35c

Boston Marrow. Early fall sort; rich orange color, excellent flavor.

Pkt., 10c; oz., 15c; ½ lb., 30c; lb., \$1.00

Golden Hubbard. Earlier than Green Hubbard; a little smaller. Color orange red.

Pkt., 10c; oz., 15c; ½ lb., 40c; lb., \$1.35

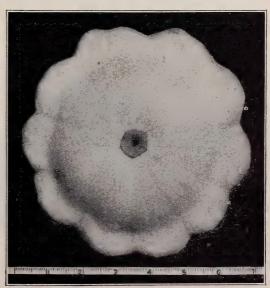
Vegetable Marrow. A small mottled green and yellow squash. Flesh white and very tender. This is the famous English variety.

Pkt., 10c; oz., 15c; ½ 1b., 40c

Mammoth Chili. Favorite variety for exhibition purposes. Attains an immense size, weighing sometimes 200 lbs or more. Excellent for stock. Can also be used for the table, as the flesh is fine-grained and of good flavor.

Pkt., 10c; oz., 15c; ½ 1b., 40c; 1b., \$1.50

To pound rate add for parcel postage.



Mammoth White Bush Squash

TOMATO

Sow in hotbed, greenhouse or window in a sitting room, where night temperature is not less than sixty degrees, about the first week in March, in drills five inches apart and half an inch deep. When the plants are about two inches high they should be set out in boxes three inches deep four or five inches apart, in same temperature, or removed into small pots, allowing a single plant to a pot. They are sometimes transplanted a second time into larger pots, by which process the plants are rendered more sturdy and branching. About the middle of May the plants may be set in the open ground. If a piece of tough paper is wrapped about each stem, they will be safe from cut worms. Set tall, slender plants on a slant and cover almost to the top. They are planted for early crops on light, sandy soil, at a distance of three feet apart, in hills in which is a good shovelful of rotted manure has been mixed. Water at the time of transplanting and shelter from the sun a few days until the plants are established. For late use, sow in a sheltered border in May, and set out the plants in June. By training the tomato vines on trellises or tying to stakes, the fruit will ripen better, and be of finer quality. A wire fence is a good support. When frost is feared in the fall pull the laden vines and hang in a shed or cellar and many will continue to ripen. will continue to ripen. One ounce of seed will produce about 2,000 plants

Acme. Ripens early; of medium, uniform size; glossy red with purplish tinge; round, smooth, free from cracks. An excellent tomato for market gardeners' use.

Pkt. 10c; oz., 40c; ¼ 1b., \$1.25

Barnard's Early June. This splendid tomato is of the same color and about as early as June Pink but is larger with a very smooth firm skin which is especially desirable for shipping and valuable to gardeners for the early market. Our stock is limited and we offer it only in small quantities. Pkt., 15c; oz., 85c

Beauty, Improved Strain. This has been a standard variety for many years, and is still the favorite main crop tomato. Medium early, round, very uniform in shape. Skin smooth, crimson with purplish tinge. Flesh solid and of excellent flavor. A splendid tomato for either the home garden or for shipping.

Pkt. 10c; oz., 40c; ½ 1b., \$1.25

Bonny Best. The crop ripens more uniformly than any other early scarlet fruited sort, and is of superior solidity and interior color. The vines are vigorous and produce a good crop of exceptionally round and deep fruits, bright deep scarlet in color and of very good quality.

Pkt., 10c; oz., 40c; ½ 1b., \$1.25

Bears continuously, large and smooth; solid as a beefsteak: Pkt., 10c; oz., 50c; ½ 1b., \$1.50 Crimson Cushion. Bears nearly seedless.

Dwarf Champion (Tree Tomato). Quite distinct from the other varieties in habit of growth and foliage. Good sort for the home garden as the plants, owing to the peculiar upright growth, take up but little room and yield abundantly. Resembles the Acme in form and color.

Pkt. 10c; oz., 40c; ½ 1b., \$1.25

Dwarf Stone. A vigorous growing dwarf, red to-mato of recent introduction. Fruit good size and of excellent quality. Pkt. 10c; oz., 40c; ¼ 1b., \$1.25

Early Detroit. Is a better yielder and more vigorous than Acme. Not only are more fruits produced, but they are heavier and are equally as firm, smooth and suitable for shipping. The fruits are of good size throughout the season, which is unusually long for so early a variety.

Pkt. 10c; oz., 40c; ¼ 1b., \$1.25



Bonny Best Tomato



Beauty, Improved Strain

Beauty, Improved Strain

Earliana. A fine scarlet tomato. Ready for the market several days ahead of any other variety. Ripens uniformly and is a good yielder. We have a special market garden strain of this seed.

Fit., 10c; oz., 40c; ¼ lb., \$1.25

John Baer. An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are also smooth, firm and of excellent quality. It is one of the very earliest to ripen its first fruits and it continues to furnish marketable fruits much longer than other very early varieties.

Fit. 10c; oz., 40c; ¼ lb., \$1.25

June Pink. The earliest of the pink tomatoes and one of the very best for the family garden. The skin is thin, very smooth; flesh solid. of excellent quality and flavor.

Fit., 10c; oz., 40c; ¼ lb., \$1.35

Livingston's Globe. A good globe-shaped tomato. Skin smooth, of purplish tinge. Flesh is firm, of good quality.

Fit., 10c; oz., 40; ¼ lb., \$1.35

Ponderosa. This is a very large, solid tomato. Color pink, changing to purple. On account of its large size it is suitable to grow for exhibition purposes. It is of good quality, however, and very largely in demand for home gardens.

Fit., 10c; oz., 50c; ¼ lb., \$1.56

Stone. A large, bright-red tomato, more widely planted than any other. Solid and productive, it is one of the very best for canning or slicing. Matures evenly.

Fit., 10c; oz., 45c; ¼ lb., \$1.35

SMALL-FRUITED TOMATOES

Strawberry, or Husk Tomato. Also called Ground flavor, either raw or preserved.

Pkt., 10c; oz., 45c; ¼ lb., \$1.35

Yellow Plum, Red Currant, and Red Cherry. The small yellow fruits are each enclosed in a husk, and are of delicious flavor, either raw or preserved.

The skin has the color and texture of a peach. It grows about the same size.

The skin has the color and texture of a peach. It grows about the same size.

For plants see page 78.

TURNIP

For early use—sow very thinly in March or April in drills from 12 to 15 inches apart; thin out to 6 inches in the rows. For fall or winter crop, sow in July and August. The old saw, "On the twentieth of July, sow your turnips, wet or dry" is good advice and sow **very** sparingly—one seed to the inch is enough. The Rutabagas are grown for feeding stock, and are also excellent for the table.

One ounce of seed for 200 feet of drill; 11/2 to 2 lbs. for an acre.

Purple Top White Globe. A fine table turnip. It is an early and heavy cropper as well as a good keeper. The bulb is a very handsome globe, and is especially suitable for the home garden. This is also a good turnip for stock feed, as it will grow to a large size if left for that purpose.

Pkt., 10c; 0z., 15c; ½ 1b., 30c; 1b., 75c

Purple Top Strap Leaf. This is probably more extensively planted than any other variety. It is a very early flat turnip of medium size, the lower portion white and the upper part reddish purple. The flesh is fine-grained and sweet. A splendid table variety.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 75c

Early Purple Top Milan. The best for spring sowing.

Of handsome appearance;
somewhat flattened, white with purple top. Bulb
forms very rapidly.

Pkt., 10c; oz., 20c; 1/4 lb., 40c; lb., \$1.15

Early White Milan. Similar in shape and size to the above, equally early; surface smooth and pure white; flesh white, tender, fine grained and of fine table quality.

Pkt., 10c; oz., 20c; 1/4 lb., 40c; lb., \$1.15

Early White Flat Dutch. A popular, early, white, flat turnip of medium size. Smooth and of good quality.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 75c

Snowball, or Six Weeks. The finest white fleshed, ball-shaped, early table turnip. Bulbs small, smooth and round, with clear white skin and sweet, crisp flesh.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 75c

White Egg. A good, early, oval-shaped turnip. Grows partly out of the ground. White and smooth skin, flesh mild and sweet.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 75c

Cow Horn. A long, white, carrot-shaped turnip, growing to a length of 12 to 14 inches. Flesh white and solid. Suitable for table use when small, and when matured excellent for feeding stock. This variety is sometimes planted to plow under as a fertilizer. Pkt., 10c; oz., 15c; ¼ 1b., 30c; lb., 75c

Yellow Globe. A handsome light yellow turnip. Fine grained, sweet and tender.

Pkt., 10c; oz., 15c; 1/4 1b., 30c

Purple Top Yellow Aberdeen. Root round and tapering. Flesh pale yellow, tender, sugary, and of superior flavor. A hardy and productive standard variety.

Pkt., 10c; oz., 15c; 1/4 lb., 30c; lb., 75c



Purple Top Strap Leaf

Rutabaga, Russian or Swedish Turnip

For Rutabagas, sow seed in open ground during June and early July in two foot rows and thin to 8 or 10 inches. The yellow turnips are much richer in food value, than the white. Take up the roots just before winter, top and store in cool cellar or pit outdoors.

American Purple Top. Hardy, vigorous growing variety of excellent quality for the table and one of the best for stock feed.

Pkt., 10c; oz., 15c; ½ 1b., 30c; 1b.. 75c

Skirving's Purple Top. An old, well-known variety, grows to a large size; very productive and good keeper.

Pkt., 10c; oz., 15c; ¼ 1b., 30c; lb., 75c

White Swede or Russian. A large white, globe-shaped Rutabaga. Flesh fine quality, sweet and tender. Excellent for the table. Can be grown to a large size if wanted for stock feed. Pkt., 10c; oz., 15c; 1/4 lb., 30c

Tobacco

The seed should be sown as early as possible after danger of frost is over. When the plants are about six inches high, transplant into rows 3 to 4 feet apart each way. One ounce will give plants for an acre.

Connecticut Seedleaf. This variety is grown in the Middle and Northern States. Pkt., 10c; oz., 35c; ¼ 1b., \$1.25

Havana. Cuban grown stock.

Pkt., 10c; oz., 35c; 1/4 lb., \$1.25

HERB SEEDS

The cultivation of herbs is very simple, and but little care is needed beyond keeping down the weeds. Sow in April or May, in drills 12 to 15 inches apart, and thin out the young plants where they stand too thickly. Gather when dry and just coming into bloom, tie in small bunches and dry in the shade. Those marked with a * are perennial.

Anise. Seeds are used for flavoring and medicinal purposes. Leaves used for garnishing.

Pkt., 10c; oz., 25c

*Balm. Leaves used for medicinal purposes. Pkt., 10c; oz., 25c

Basil, Sweet. The seeds and stems used for flavoring soups. Pkt., 10c; oz., 25c

Borage. Good bee plant. Leaves for salads.

Pkt., 10c; oz., 25c

*Caraway. Seeds used for flavoring cakes, etc.
Oz., 10c
Oz., 10c

Dill. Seeds and leaves used with pickles, etc.
Pkt., 10c; oz., 15c; ½ 1b., 35c; 1b., 90c *Fennel. Seeds used for flavoring and garnishing. Pkt., 10c; oz., 20c

*Horehound. Used for medicinal purposes

Pkt., 10c; oz., 35c Pkt., 10c; oz., 35c *Hyssop. Used in medicine

*Lavender. Used in the making of perfume and scenting clothing.

*Marjoram Sweet. Used both in the green and dry state for seasoning.

*Pennyroyal. For medicinal purposes. Pkt., 10c; oz., 35c; *Pennyroyal. For medicinal purposes. Pkt., 10c of perfume. Pkt., 10c; oz., 35c; *Rue. Used for medicinal purposes; also recommended for diseases of poultry.

*Saffron. Used for coloring. Pkt., 10c; oz., 35c Pkt., 10c; oz., 35c; *Sage. Grown very extensively for seasoning. Pkt., 10c; oz., 35c; *Summery Savory. Excellent for seasoning. Pkt., 10c; oz., 35c; *Ya lb., \$1.15 *Summery Savory. Excellent for seasoning. Pkt., 10c; oz., 35c; *Ya lb., 70c *Thyme. For seasoning. Pkt., 10c; oz., 35c; *Ya lb., 70c *Thyme. For seasoning. Pkt., 10c; oz., 50c *Thyme. For seasoning. Pkt., 10c; oz.

grown for medicinal points, mended also as of value to poultry.

Pkt., 10c; oz., 40c

Vegetable Plants and Culinary Roots We are large growers of Vegetable Plants. Have them fresh every day in season. Special prices given

on large quantities.

POSTAGE—Prices do not include prepayment by mail or express. If wanted by mail, add for postage, 5c per dozen; 25c per 100 on Cabbage, Cauliflower, Celery and Sweet Potato Plants; 10c per dozen on Egg Plants, Pepper and Tomato Plants, within the Third Zone.

Vegetable Plants Brussels Sprouts ..

Cabbage—Early Varieties	
Cauliflower	Market
Celery	prices
Egg Plant	given
Kohl Rabi	upon
Pepper	application.
Tomato (Transplanted). Leading sorts.	
Tomato, Extra Heavy	
	clump, 15c
Horse Radish Sets Dozen, 20	c: 100, \$1.00

Postage Extra. **Asparagus Koots**

Asparagus Roots

One or two year's time can be gained by setting out Asparagus roots instead of planting seed. A bed of Asparagus, properly made, should last for twenty years or more. This delicious vegetable can be grown from seed, but, as a general thing, it is more satisfactory to purchase two-year-old roots; these should be set so that they will stand about 15 inches apart, in rows 3 feet apart. Before setting, be sure that the soil is spaded or plowed very deeply. The crowns of the plants may be covered with 4 or 5 inches of soil. In our northern garden it would be well to mulch the bed with manure and straw; in the South this mulching will not be required, but the beds should receive a good coating of manure or other fertilizer during the autumn season. The shoots should not be cut the first year after setting in béd, but the second season the larger shoots may be cut. The third season and thereafter the crop can be cut often enough to prevent any of the larger shoots maturing. Some of the top should be allowed to grow during the summer but late in the autumn cut off the dead tops, burn and apply the fertilizer.

Our two-year-old Asparagus roots are heavy, clean stock that will make a vigorous growth the first season.

Note—Prices do not include postage. If to be

Note—Prices do not include postage. If to be mailed within the Third Zone, add 20c per 100 for the one-year-old plants, and 35c per 100 for the two-year-old plants. If to be r 100 for year-old plants. Bonvallet's Giant

This giant variety combines high productive power, and withstands rust.

withstands rust.

Two-year-roots, 25 for 75c; 100, \$1.75; 1,000 \$13.00

Pedigreed Washington. This is a new and very promising strain.

Two-year-roots, 25 for \$1.00; per 100, \$3.00

Palmetto. A large, dark green variety.

Two-year-old roots, 25 for 60c; 100, \$1.50; 1,000, \$12.00

Conover's Colossal.

Two-year-old roots, 25 for 60c; 100, \$1.50; 1,000, \$12.00.

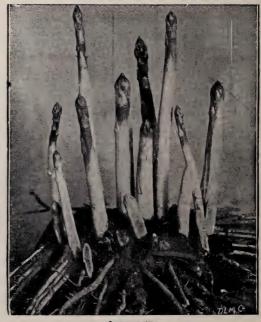
Rhubarb Roots

rom our medium size or large clumps, Rhubarb stalks can be cut the following season after planting. The growth of the plant is very rapid from these clumps. A mulch of stable manure during the winter will insure their protection and stimulate stronger growth in the spring. Mailing size, each, 15c postpaid. Clumps, each, 25c to 75c, according to size; not pregaid.

Special Prices on Large Quantities

Bedding Plants

In May, we carry large stocks of seedling Asters, ansies, and Salvias; also Geraniums and other pot-Pansies, grown plants.



Asparagus

Barnard's Planting Table for Small Vegetable Gardens

Quantity of seeds or number of plants required for a row of 100 feet in length, with distances to plant, times for planting, and period required for production of crop in the latitude of Chicago.

Where "packets" are mentioned the quantity is based upon the liberal packages as supplied by The W. W. Barnard Co.

NOTE—*Denotes the quantity of seed suggested in table should raise sufficient plants to transplant into a row 100 feet long. Such seed should be sown in hot-bed from February to March for earliest results and later may be sown in a cold frame; if neither are at your command sow the seed in a well prepared seed bed in the open after the frosty weather has passed. (See table.)

Kind of vegetables	Seed or plants required for 100 feet of row	DISTANCE FOR Rows apart, hand cultivation	PLANTS TO STAN Plants apart in rows	Time of planting in open ground	Reary for use after planting
Artichoke, Globe	½ oz. 2		to 3 ft.	Early spring	15 mos.
Artichoke, Jerusalem			to 2 ft.	Early spring	6 to 8 mos.
Asparagus			to 5 in.	Early spring	3 to 4 yrs.
(for transplanting)					
Asparagus Plants		30 to 36 in. 15	in.	Early spring	1 to 3 yrs.
Beans, Bush		5 to 24 in. 5		April to July	40 to 75 days
Beans, Pole			to 4 ft.	May and June	50 to 100 days
Beets		2 to 16 in. 3		April to August	60 to 80 days
*Brussels Sprouts	I pkt. 2	24 to 30 in. 16		May and June	90 to 120 days
*Cabbage, Early	I pkt. 2	24 to 30 in. 12		March and April	90 to 130 days
Cabbage, Late *Cardoon	1 pkt. 2	24 to 36 in. 16 2 ft. 12		May and June April and May	90 to 130 days 5 to 6 mos.
Carrot		2 to 15 in. 3	to 18 in. or 4 to ft.	April to June	5 to 6 mos. 60 to 110 days
*Caulifiower	1/6 07 2	24 to 30 in. 16		April to June	100 to 130 days
*Celeriac	/8 02. 2	8 to 24 in. 4		May to June	100 to 150 days
*Celery	1 pkt 1	8 to 36 in. 4		May to June	120 to 150 days
*Chervil	1 pkt. 1		or 2 to ft.	May	120 days
Chicory		8 to 24 in. 4		May and June	5 to 6 mos.
Collards	1 pkt. 2		to 18 in.	Late spring	100 to 120 days
Corn, Salad	2 ozs. 1	2 to 18 in. 5		March to August	60 days
Corn, Sweet	1 carton 3	30 to 36 in. 15	to 24 in.	May to July	60 to 100 days
Cucumber	1 pkt.	4 to 6 ft. 4	to 6 ft.	May to July	60 to 80 days
Dandelion	1 pkt. 1		in.	Early spring	6 to 12 mos.
*Eggplant	$\frac{1}{2}$ oz. 2	24 in. 18	in.	May and June	100 to 140 days
Endive			to 12 in.	April	90 days
Horse-Radish				Early spring	1 to . 2 yrs.
*Kale, or Borecole		8 to 24 in. 18		March and April	70 to 100 days
*Kohlrabi		5 to 24 in. 4		March to May	60 to 80 days
Leek		2 to 16 in. 4		March to May	120 to 180 days
Lettuce		0 to 15 in. 6		March to Sept.	60 to 90 days
Melon, Musk		4 to 5 ft. Hi		April to June	90 to 120 days
Melon, Water Mustard	1 o2.	6 ft. Hi 2 in. 4	lls, 6 ft.	May and June	100 to 120 days
New Zealand Spinach		24 to 36 in. 12	to ft.	March to May	60 to 90 days
Okra, or Gumbo			to 30 in.	Early spring	60 to 100 days
Onion Seed		2 to 18 in. 4		May and June	90 to 140 days 120 to 150 days
Onion Sets		2	or 6 to ft.	March and April Fall or early spring	90 to 120 days
Parsley			in.	Early spring	90 to 120 days
Parsnip			to ft.	April and May	100 to 150 days
Peas		30 to 36 in. 4		March to June	50 to 80 days
*Pepper		8 to 24 in. 15		May and June	100 to 140 days
Potato, Irish		4 to 36 in. 15	in.	March to June	70 to 140 days
Potato, Sweet		3 to 4 ft. 15	in.	May and June	140 to 160 days
Pumpkin		8 to 10 ft. Hi	lls, 8 ft.	May to July	100 to 140 days
Radish	l oz.		to ft.	March to Sept.	20 to 40 days
Rhubarb plants	33		ft.	Early spring	1 to 3 yrs.
Rutabaga			to 8 in	May and June	60 to 80 days
Salsify			in.	Early spring	120 to 180 days
Spinach Squash, Bush			to ft.	Early spring	30 to 60 days
Squash, Late	1 pkt,	3 to 4 ft. Hi		April to June	50 to 80 days
Swiss Chard			lls, 6 ft.	April to June	100 to 160 days
Vegetable Marrow			in. lls, 8 ft.	April to June	60 days
*Tomato		3 to 4 ft. 2		April to June	110 to 140 days
Turnip	1 pkt 1.		to ft.	May and June April (July)	100 to 140 days 60 to 80 days
Witloof Chicory,	1 oz.	· · · · · · · · · · · · · · · · ·	10 11.	ripin (july)	60 to 80 days
or French Endive	1:	2 to 15 in. 3	to 4 in.	April and May	Fall or Winter

NOTE—Where "packets" are mentioned the quantity is based upon the liberal packages as supplied by The W. W. Barnard Co.

SUMMER FLOWERING BULBS For Spring Planting

B ULBS are of easiest culture, inexpensive, and require but little care. Put them in the ground out of doors in April and May. Some will bloom in June, and all during the same year as planted. These include many of our most attractive plants for both foliage and flowers. As a rule they should be planted out of doors after the weather has become somewhat settled and warm. After the first frost and the leaves have turned droopy or yellow, take up and put in a dry cellar or some other place where they will not freeze, storing in paper bags or soil preferably, and then replanting the following year. the following year.

Amaryllis

Most of those we list are suitable for house, conservatory, and garden. For pot culture Amaryllis require a well-drained, turfy, sandy soil and a growing and resting season. If convenient, start in hotbed, beginning with fifty degrees of heat, increasing to sixty or seventy. When the leaves appear, water carefully and not in too great quantity. The Alba and Rosea planted in May make rich and showy border



AMARYLLIS

Atamasco Alba—(White Fairy Lily,) Plant three or four bulbs to a five inch pot.

For the garden culture, set out in spring and lift in autumn like Gladiolus.

Each, 10c; doz., \$1.00

Atamasco Rosea—(Pink Fairy Lily). In bloom all summer. Fine for edging.

Each, 15c; doz., \$1.50 Johnsonii—Scarlet with clear white stripe, Each, 50c; doz., \$5.00

Giant Vittata Hybrids

Immense flowers with broad overlapping petals, vigorous stems having from four to six gigantic blooms of perfect form. Colors range from pure white ground with markings of rose, red, and crimson, to the richest self colors in scarlet, crimson, bright red, cherry, and maroon. Make very satisfactory pot plants.

Our bulbs will produce large spikes with many blooms.

Each, 75c; doz., \$7.50

BEGONIAS (Tuberous Rooted)

Showy velvet-like flowers of enormous size blooming continuously until frost have made these plants well favored for outdoor bedding. They reign supreme in shady places, and cannot be bettered for house plants, hanging baskets or porch boxes. Flowers as large as six inches across may be expected. These tubers never come blind. All that they ask is protection from the hot sun and drying winds, and plenty of moisture.

They may be started indoors at any time for growing on in pots, or early in March for bedding out in June. Use light rich soil, but do not cover the crown.

Owth. Outdoor plantings where they are to remain may made in late April, covering with $1\frac{1}{2}$ inches of

Giant Single Varieties. In shades of separate colors

Giant Single Varieties. In shades of separate colors such as pink, red, white, yellow, orange or mixed. Each, 30c; doz., \$3.00 Giant Double Varieties. Colors as above. Blooms so very double they seem Each, 35c; doz., \$3.50 flant Ruffled Crispa. This is an extra fine strain of Single Begonias with fluted and ruffled edges. Colors as above. Each, 35c; doz., \$3.50

Caladium Esculentum

(Elephant's Ears)
A vigorous growing plant which has tremendously large pendulus leaves borne on long stiff stems. In rich soil, with an abundance of moisture, assume very large growth and is most effective either singly on lawns or planted in center of beds or as backgrounds for other blooming plants. They are frequently planted in groups and quite often as border around Cannas.

CALADIUM ESCULENTUM

Small Size	Bulbs	Each.	\$0.10;doz.,	\$1.00
First Size	Bulbs	Each,		
Extra Larg	e Bulbs	Each,	.25; doz.,	2.50
Mammoth I	Bulbs	Each,	.35; doz.,	3.50
Extra Mam	moth	Each.	.50; doz.,	5.00

Fancy Leaved Caladiums

Very decorative plants used in window boxes or pots. Heart-shaped leaves in various colors, veined and striped with red, pink and white.

These bulbs have exceptional growing qualities and give results in a short time. Their decorative value continues undiminished throughout the summer.

Each, 50c; doz., \$5.00



BARNARD'S SELECTED CANNAS

BRONZE FOLIAGE

King Humbert—Its flowers measure 6 in, in diameter, produced in gigantic trusses, a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich copperybronze, 4 to 5 feet. Each, 10c; doz., \$1.00

Florida—Very handsome flower of orchid type, yellowish-red in color, beautiful bronze foliage. A grand Canna, 4 ft. Each, 15c; doz., \$1.50

Statue of Liberty—A giant Canna with immense flame - red flowers of orchid type. Massive bronzy foliage. 7 ft. Each, 20c; doz., \$2.00

RED SHADES—Green Foliage

American Beauty—Velvety oriental carmine or translucent cerise. Very free flowering. 5 ft. Each, 20c; doz., \$2.00

Candelabra—A glorious Canna. Flowers extra large, color fiery orange-scarlet. Blooms incessantly. 5 ft.
Each, 20c; doz., \$2.00

Firebird—The flowers are borne in immense trusses, on strong stalks well above the leaves. They are of splendid form, round and shapely. The petals measure 2½ inches and more across. The flower is a clear, glistening scarlet, without any streaks, spots or blotches; 4 feet.

Each, 10c; doz., \$1.00

Meteor—Deep dazzling crimson flowers, produced in mammoth clusters. A most effective bedder and considered by many to be the best crimson. 5 ft.

Each, 10c; doz., \$1.00

Splendor—Splendid scarlet flowers. Foliage soft green. 4½ ft.
Each, 10c; doz., \$1.00

The President—Scarlet, finest of its class.
Flowers over 6 inches across, vigorous and healthy even in extreme drought.

Each, 15c; doz., \$1.50

Wintzer's Colossal—5 to 6 ft. Orchid flowers of vivid scarlet, 8 inches across, without a doubt the largest flower to date.

Each, 10c; doz., \$1.00

PINK SHADES—Green Foliage

Apricot—Buff yellow base overspread with salmon pink. A rich, new color. Very appropriately named. 4 ft. Each, 15c; doz., \$1.50

City of Fortland—Broad, rounded petals opening wide on eavily filled trusses, flowers produced in great profusion. Color a beautiful rose-pink, 3 to 4 ft. Each, 15c; doz., \$1.50

Hungaria—Very compact plant, almost dwarf, and of luxuriant growth. Flowers large with rounded petals, color a pure rose-pink with cream throat, 2 to 3 ft. Each, 15c; doz., \$1.50

Mrs. Alf. F. Conard—The large exquisite shaded salmon pink flowers are produced in great abundance on robust, upright plants. Wonderfully profuse in blooming; large heads; 4 feet. Each, 15c; doz., \$1.50

VARIEGATED—Green Foliage

Venus—One of the most delicately colored varieties,
Flowers of medium size of a soft rosy-pink,
with a mottled border of creamy-yellow; 4 feet.
Each, 10c; doz., \$1.00



King Humbert

YELLOW SHADES—Green Foliage

Canary Bird—Broad, large flower of canary yellow.
Foliage soft green and very heavy.
An excellent bloomer. 3½ ft. Each, 10c; doz., \$1.00

Florence Vaughan—Bright, rich golden-yellow, spotted with red; 4 feet.
Each, 10c; doz., \$1.00

Princeton—An intense yellow with a red tinge in the throat. Resists bleaching better than other yellow Cannas. 4 ft. Each, 10c; doz., \$1.00

Yellow King Humbert (Queen Helene) — Identical with King

Humbert in habit of growth and flowering, and produces yellow flowers, dotted with red, and has green foliage. It will please all who try it. Some plants will occasionally give a scarlet or scarlet striped flower. 5 feet. Each, 15c; doz., \$1.50

WHITE—Green Foliage

Eureka—4 ft. Remarkably free flowering variety, and with its striking white flowers, which first appear cream, make a very effective show in conjunction with a good scarlet, such as Firebird or King Humbert. Each, 15c; doz., \$1.50

Flag of Truce—Large flowering creamy white with faint pink dots over all the petals.

Not as pure white, nor as tall, as "Eureka," but distinct and valuable. 4 ft. Each, 15c; doz., \$1.80

Summer Flowering Bulbs

Cinnamon Vine

Perfectly hardy—thriving in all soils, in sun or shade, wet or dry. No insects, blight or disease of any kind ever troubles them, no winter harms. Once planted they will grow a lifetime. They will quickly climb 30 feet or more, and surround your windows and cover your porches, walks, etc., with a mass of vines—covered with pretty heart-shaped leaves and a profusion of dainty, white, sweet-scented flowers.

Medium size	Each	10c;	doz.,	\$1.00
Large size	Each,	15c;	doz.,	\$1.50
Giant size	Each	20c;	doz.,	\$2.00

Gloxinias

Very attractive pot plants, for inside blooming, with large bell-shaped flowers in a wide range of colors, including white, red, violet, blue, and yellow, in shades and combinations. Our stock is all of the strong, upright growing type.

Each, 35c; doz., \$3.50

Hyacinthus Candicans

(Summer Hyacinth)

The large, solid bulbs, planted in spring among shrubbery or interspersed among scarlet geraniums, produce a grand effect in August and September with their tall flower spikes, 3 to 4 feet high, each one bearing 20 to 30 white, bell-shaped blossoms. Thrives in any situation.

Each 15c; doz., \$1.5c.

Ismene Calathina

(Peruvian Daffodil)

A grand summer-flowering bulb, producing with great freedom large Amaryllis-like, pure white, fragrant blossoms. Keep the bulbs in, a dry warm place, and plant out in June. Bulbs can be taken up in October and, after a few weeks' rest, potted and flowered in the house in the winter, or kept over for planting out another season.

Each 20c; doz., \$2.00

Madeira Vine

(Climbing Mignonette)

A favorite climber with dense and beautiful shining foliage of very rapid growth, twining on strings to great height or forming garlands in many fanciful forms. Does best in a warm, sheltered, sunny location.

	Each	Doz.
Small-size	\$0.08	\$0.85
Medium size	10	1.00
Select size	15	1.50

Montbretia

These beautiful bulbous flowers have long been neglected in this country. Some of the newer kinds have flowers as large as Gladioli. Each bulb will give you several fine spikes of flowers, many flowers to each spike. The long, slender green foliage works in well with many kinds of flowers.

Improved Aurantiaca. A large, new, orange yellow flower, extra tall grower.

Each 10c; doz., \$1.00; 100, \$7.50;

Oxalis

The summer-blooming varieties which we here offer are unexcelled as an edging to borders of walks of flower beds. Planted two or three inches apart they produce an unbroken row of handsome foliage and pretty flowers.

Deppei. Clover-like foliage; white flowers.

Doz. 25c; 100 \$1.50

Lasiandra. Beautiful cut foliage; rose-pink flowers.

Doz. 25c; 100 \$1.50

Mixed, all sorts, Doz., 15c; 100 \$1.00



Double Pearl Tuberose

Double Pearl Tube-Roses

One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed; and for a succession they can be planted at intervals as late as July. For flowering in the open border plant about the middle of May, or as soon as the ground becomes warm.

Strong flowering bulbs.

Each 8c; per doz., 75c

Single Mexican Tuberoses

Early flowering, producing several flower spikes from each bulb during July and August. The beautiful white single flowers are useful in the garden or in bouquets. Each, 8c; per doz., 75c

NOTE-We do not send BULBS of any kind by mail until all danger of freezing is past.



Dahlia-Betty Austin

New Introductions and Novelties

Never has the interest in new Dahlias been so keen as at present, and never have Dahlia lovers been so discriminating. A new Dahlia now must surpass all existing varieties, or be entirely distinct, to secure recognition.

The varieties listed on this page are all exceptional and difficult to beat.

Betty Austin. A Hybrid Cactus that is in a class by itself. One of the earliest to bloom, a free and continuous bloomer. The flowers are full to the center. Color, yellow at base of petal, blending to rosy carmine and rose, yellow at tips; reflex rose. Flowers are medium to large, usually about seven inches in diameter. Plant is a quick grower, of branching habit, about three to four feet high.

Each, 75c; doz., \$7.50.

Mrs. Caroline Bruner. Decorative. One of the most popular varieties. Brilliant crimson, shaded maroon, with flame and yellow at center and base of petals; a rich and effective combination. The flowers are large, of splendid form and carried well above the foliage.

Each, \$1.00; doz., \$10.00

Patrick O'Mara. This sensational new decorative variety was awarded a Gold Medal by the American Dahlia Society, as the best Autumn shade variety in existence. The color is an unusually soft and pleasing shade of orange-buff slightly tinged with Neyron rose. It is very large, 7 to 9 inches in diameter, and borne on long strong erect stems. It is a strong, vigorous grower and free bloomer. The giant flowers are well formed, with good full center, while the outer petals are most pleasingly irregular.

Each, 75c; doz., \$7.50

Pink Rosebud. Cactus. One of the loveliest dahlias grown. The buds are long, pointed, and the petals unfold like a long, pointed rosebud, one petal at a time. Buds are carried erect. like a rosebud, on long, straight, and rigidly stiff stems. Color is pure pink, tinting lighter toward the center and tips of petals.

Each. \$1.50: doz... \$15.00

Each, \$1.50; doz., \$15.00

DAHLIAS

One of the most showy of the autumn flowers. The culture is most simple; any extra attention given to the growing plants is repaid by larger and more blooms. A sandy soil which has been well enriched and a sunny position are advantageous factors, yet good results accrue in almost any soil. About three feet apart is the distance to plant. Large clumps of roots should be divided, leaving one or two eyes to the tuber. When planting place the tuber flat on its side and cover six inches deep; after the growth shows above ground cultivate until the blooming period. Planting time in this latitude is from about May 10 to the end of June.

All of the Dahlias offered in this catalogue are supplied in sound roots, ready for

A Collection of the World's Seven Best Dahlias

These varieties are considered by experts to be absolutely the best in their colors and types, combining all of the qualities that go to make up the perfect Dahlia.

Sold separately at the prices listed, with value of \$8.90 for all seven.

Collectively, we offer one root of each of the seven for \$7.00.

Claire Kulp. Hybrid Cactus. The greatest of all reds. Flowers more than ten inches in diameter on a wonderful stem. Color is the richest cardinal, shaded garnet, with just enough yellow at the base of the petal to set off the red most effectively. All other reds look dull and commonplace in comparison.

Each, \$1.50; doz. \$15.00

Mary Dorr. One of the most beautiful of all Cactus dahlias and the best of the deep pink and white type. Color is a bright tyrian pink, blending to white at center of flowers and tips of petals. Flowers are produced freely on long, slender, but stiff stems. Each, \$1.00; doz., \$10.00

rs. F. Bergholz. A bold sturdy Hybrid Cactus of splendid form. A beautiful clear pink which is rendered more effective and chaste by the white tips and creamy white center. The flowers are always perfect and borne well above the foliage on long stiff stems.

Each, \$2.00; doz., \$20.00 Mrs. F. Bergholz. A

Mrs. J. Harrison Dick. One of the most valuable new decorative varieties of recent introduction. Color citron yellow at center, outer petals suffused and overlaid salmon pink, a lovely and effective combination, especially under artificial light.

Each, 50c; doz., \$5.00

Mrs. Leo Niessen. Cactus. very bright and effective, crs. Leo. Niessen. Cactus. very bright and effective, being produced profusely on stiff stems, always full and perfect. Color, a beautiful shade of scarlet red, blending to peach red at center of flower, with bright yellow at base of petal and at tips; reflex sulphur yellow veined and suffused pale peach red. A splendid bright, rich Autumn combination. Each, \$1.00; doz. \$10.00

rich Autumn combination. Each, \$1.00; doz. \$10.00

Sophy Morey. A giant Cactus that is ideal in every way; large size, fine form, long stiff stems, a good keeper, vigorous grower, and profuse bloomer. Color white, lightly suffused and overlaid pale phlox purple; a delicately beautiful color.

Each, \$2.00; doz., \$20.00

Sunset Glow. Best of its type for garden or commercial use. A Hybrid Cactus of perfect form and profuse bloomer. Color is yellow at base of petal, outer part overlaid flame scarlet, tipped yellow. One of the very first to bloom.

seven Dahlias described above are offered in our collection of "World's Seven Best Dahlias", one root of each for \$7.00.



Principal Dahlia Types

Introductory Collection

Includes all of the types illustrated above. 12 named Dahlias of our selection, for \$2.00

Ball or Show Dahlias

Show dahlias are a branch of the old ball type. Their flowers are of perfect form, round and full. The petals are cuppled or quilled. The colors are mostly solid or tipped a little lighter than the ground color. Fancy dahlias are of the same form as those called show dahlias only they are striped, spotted, or otherwise variegated.

A. D. Livoni. Clear, cerise pink, with beautifully quilled petals. A free bloomer and a great favorite. Each, 25c; doz., \$2.50

Mrs. Hartong. Rich bronzy yellow suffused salmon pink. Each, 25c; doz., \$2.50

Queen Victoria. Rich golden yellow, quilled petals.

A strong grower and a profuse
Bach, 25c; doz., \$2.50

Snow. Pure snow white. Each, 25c; doz., \$2.50

Tansboro. Crimson shaded maroon, white suffused crimson at base of petals, early and profuse bloomer. Each, 25c; doz., \$2.50

Hybrid Cactus Dahlias

Attraction. Large, elegant flower of clear lilac rose, borne on long stiff stems and of exceptional merit. A true peony-cactus type.

Each, 75c; doz., \$7.50

LUMESCH. A cross of Mme. Lumiere and Mme.
Eschenauer. Beautiful and distinct variety of Hybrid Cactus form. Color is white suffused pink, heavily shaded carmine. An early and
free bloomer. Each 75c; doz., \$7.50

Cactus Dahlias

Dahlias in this class have long, narrow twisted petals of the most beautiful color, many of them blending one color into another in the most exquisite manner possible. The flowers are perfectly double, loosely arranged, irregular in outline, and borne on good stems, well supplied with buds and foliage. The plants are mostly strong growers and are profuse bloomers. good stems, we The plants are fuse bloomers.

w. Fellows. Flowers of immense size. Composed of numerous long narrow incurved petals of a lively orange scarlet. This is one of the largest and finest Autumn shade varieties. Should be in every collection.

Each, 75c; doz., \$7.50 F. W. Fellows. Flowers of immense size.

Should be in every collection.

Each, 75c; doz., \$7.50

Golden West Cactus. This is a California variety that is in a class by itself, in its color—that rich golden, bronzy yellow, with the scarlet shading at the base of the petals and the center. It is a wonderful grower, strong and sturdy, with heavy, clean healthy leaves, and branching habit, producing flowers freely on long, stiff stems. The flower is large, outer petals reflexing somewhat, with a full high center.

Each, 50c; doz., \$5.00

Lawine. A magnificent flower on long stem. A strong, vigorous grower, early and profuse bloomer. One of the best for commercial cut flowers and for the garden.

Each, 25c; doz., \$2.50

Marjorie Castleton. The best standard pink Cactus Dahlia. It is much softer than most of the pinks and is an early, continuous bloomer. The color is a soft rosy pink, tinting lighter toward the center. It is a very rapid grower, with good stems and keeps well affer cutting.

Mme. Eschenauer. A most pleasing and effective color, being yellow at base of petals, passing to creamy white, suffused and tipped pale lilac.

Each, 25c; doz., \$2.50

Mme. Eschenauer. A most pleasing and effective color, being yellow at base of petals, making it a most lovely and effective flower.

Each, 25c; doz., \$2.50

Rube Girl. A bronzy or "Autumn Shade" variety, Color, soft yellow, suffused, overlaid and tipped coral red, giving the flower a bronzy effect, that lights up wonderfully under artificial light. Long, slender stiff stems.

Each, 35c; doz., \$3.50

Century Dahlias (Single)

Century Dahlias (Single)

These have but one row of petals, resembling cosmos, but much larger, and are very free flowering. Fine for cutting.

Autumn Century. A fine bronzy variety; large fine form on long stems. Color, buff yellow at base of petals shading through amber to red, with an iridescent sheen.

Each, 35c; doz., \$3.50

Cream Century Delicate creamy white, beautiful form on long stems.

Each, 25c; doz., \$2.50

Evelyn Century. Very bright and effective. Color white, outer half of petals a bright violet-cerise making a beautiful white zone around the yellow disc.

Each, 25c; doz., \$2.50

Giant Red. Enormous size and a rich oriental color with an effective yellow spot at tip of petals.

Each, 35c; doz., \$3.50

Gloxinia. In marking and brilliancy of colors resembles the Gloxinia so much as to suggest the name. Color, brilliant cerise, tinting lighter at tips with white at base of petal, making a white zone around the yellow disc.

Each, 35c; doz., \$3.50

James Weller. Finest of all single Dahlias; large size and most beautiful color combination. Color, a rich golden yellow with one-third of each petal overlaid soft rosy red. The two colors blend most harmoniously and are very effective. The big flowers are produced freely on long stiff stems.

Each, 75c; doz., \$7.50

Jessie. The greatest white single Dahlia in existence. Exquisite form, pure white, of large size and borne profusely on long slender but stiff stems.

Praxitelles. The color is deep velvet marcon, each petal tipped white. The plants are dwarf, branching, and profuse bloomers.

Sunset Century. Most strikingly effective. Yellow at base of petal, outer half deep rich vermilion. Very bright and effective for garden or cutting.

Decorative Dahlias

The massive flowers are loosely formed and present a striking appearance. The petals are broad, long, and flat. The varieties offered here can be relied upon to give entire satisfaction and be a mass of colors from early August until cut down by frost.

laska. One of the very finest white decorative
Dahlias. Flowers of large size, finest
form and borne erect on rigid stems.
Each, 25c; doz., \$2.50 Alaska, One

Insulinde. The finest and most artistic Dahlia of distinct form with petals twisted and flowers nine to ten inches across. Color, a rich saffron yellow shaded russet orange.

Each, \$1.00; doz., \$10.00

Jack Rose. The best crimson for garden or cutting; that brilliant crimson red that makes the "Jack" Rose popular, and suggested the name.

Each, 15c; doz., \$1.50

Mina Burgle. It is a strong, vigorous grower, of erect branching habit, an early, continuous and free bloomer; a good keeper and rootmaker, in addition to its large size, fine form and vivid glowing vermilion red color.

Each, 35c; doz., \$3.50

Mrs. C. H. Breck. Hybrid Decorative. Color, soft yellow, suffused and tipped carmine, very bright and effective. Vigorous grower of dwarf branching habit and an early, profuse and continuous bloomer. Flowers are large and borne on stiff erect stems.

Each, 50c; doz., \$5.00

Mrs. J. Harrison Dick. One of the most valuable new varieties of recent introduction. Color citron yellow at center, outer petals suffused and overlaid salmon pink, a lovely and effective combination, especially under artificial light.

Each, 50c; doz., \$5.00

Pink Jack Rose. Rose pink sport of Jack Rose. Each, 25c; doz., \$2.50

Queen Mary. A grand decorative that has proven its worth as the best deep pink for all purposes. The size is large to very large; full high center. Color clear silvery cerise pink. The plant is a strong, healthy, vigorous, upright branching grower, producing giant flowers freely on long stiff stems.

Sylvia. Deep pink, tinting to flesh pink at center; large, perfect form, on long, stiff stems. One of the best for cutting or garden.

Bach, 25c; doz., \$2.50



Collarette Dahlias

A most uniquely distinct class or type, that has become quite popular. Every collection should include one or more of them. The flowers are single with a smaller row of small or collar petals. These collar petals are generally distinct in color from the outer row.

We know these will please you and add to the attractiveness of your -collection.

Albert Maumene. Velvety crimson purple, margined white, collar white.

Each, 25c; doz., \$2.50

Banker. Rich scarlet, collar petals scarlet, tipped yellow. Each, 25c; doz., \$2.50

Marley. Clear light canary yellow; a fine variety for cutting; very effective. Each, 25c; doz., \$2.50

Maurice Revoire. Rich crimson maroon, white collar. Plant is a strong vigorous grower and profuse bloomer. Very effective.

Each, 25c; doz., \$2.50



Barnard's Mixed Dahlias

Our mixtures are made from selected varieties and contain many more kinds than we list.

Cactus Varieties, Mixed. Each, 20c; doz., \$2.00 Decorative Varieties. Mixed. Each, 25c; doz., \$2.50

These should be divided before planting, leaving one or two eyes to each tuber, by splitting the main stem. Plant the tuber flat on its side and cover six inches deep. Planting time is generally from May 10th till late June.

Dahlia Clumps, Mixed

Double White, Red, Yellow, Pink Variegated, Each, 20c; doz., \$2.00 All colors mixed, 15c each; \$1.50 doz.



Gladioli

"GARDEN BEAUTY"

Gladioli Collection

25 large bulbs for \$1.00 Postpaid \$1.10 \$1.00 Composed of popular varieties, including AMERICA, the famous pink, and other tried and tested kinds. Full culture directions accompany company each package.

Mrs. Dr. Norton—White, with edges suffused a soft rose-pink at tips of pointed petals. Lower petals have a blotch of sulphur-yellow, speckled at base with soft rose. The beauty of this flower is in the soft harmonious blending of wonderful tints. Strong and vigorous grower and very free flowering. Each, 15c; doz., \$1.50

Mrs. Francis King—Flowers of giant size on a spike growing four feet high with from eighteen to twenty flowers, six to eight open at one time. A rich salmon-red, lower petals spotted with carmine. A splendid cut flower and an excellent keeper. Each, 10c; doz., 75c; 100 \$5.00

Mrs. Francis Pendleton-Flowers are of largest size borne on strong straight spikes. A beautiful shade of light pink with a brilliant deep red blotch in throat on lower petals. A color combination rivaling many of the fines. Orchids in its richness. A spectacular variety.

Bach, 10c; doz., 75c; 100, \$5.00

GLADIOLI

These are among the easiest and most satisfactory bulbs for everybody to grow. As decorative flowers for the garden or the adornment of interiors, they have few superiors. Start to plant the bulbs in April, continuing to do so every ten days or so for succession. Set them from two to four inches deep, according to size, and about six inches apart each way. Cut the spikes when the first bloom begins to unfold. Place in water and the buds will expand beautifully and last for several days if water is changed daily. Mailed postpaid at single or dozen rates.

Gladiolus bulbs weigh about 8 pounds per 100, and if wanted in quantity by mail, include enough to cover postage in your remittance.

Alice Tiplady. A large, vigorous, primulinus of a beautiful orangesaffron color. Strong grower. Extra Each, 10c; doz., \$1.00

America—Soft flesh pink, lightly tinged with lavender. Full spike.

Each, 10c; doz., 50c; 100, \$4.00

Anna Eberius—Dark velvety purple throat shading deeper. Wide open flowers of excellent substance, strong spike.

Each, 20c; doz., \$2.00

Baron Hulot-One of the finest deep violetpurple, very dark on petal tips; light on upper petals in throat, lower petal a rich pansy-violet with a fleck of primrose-yellow.

Each, 10c; doz., \$1.00

Bertrex—Creamy white flowers of great substance. Very pleasing variety. Each 10c; doz., 85c

Byron L. Smith—Soft lavender-pink on a white ground. Very fine Color equal to an orchid.
Each, 20c; doz., \$2.00

Chicago White—Pure white with faint lavender markings on the lower petals. Tall, straight stems. Early. Each, 10c; doz., 75c; 100, \$5.00

Evelyn Kirtland—The flowers are a beautiful shade of rosy-pink, darker at the edges, fading to shell-pink at the center, with brilliant scarlet blotches on lower petals. Entire flower showing a glistening, sparkling lustre.

Each, 10c; doz., \$1.00

Gretchen Zang—A most beautiful soft melting shade of pink, blending into deep salmon on the lower petals. Each, 10c; doz., 85c

alley—A most attractive early-blossoming sort, with large well-opened flowers of delicate salmon-pink with a creamy blotch on lower petals Each, 10c; doz., 75c; 100, \$5.00 Halley-A

Herada—New variety and new color in Gladioli.
Blooms of immense size on tall straight
spikes. Massive in every way. An effective pure
mauve, glistening and clear, with deeper markings
in the throat. Unusually attractive.
Each, 10c; doz., \$1.00

Le Marechal Foch—Considered an improvement on America. Very delicate pink with enormous wide open flowers. Very early. A valuable cut flower variety. Each, 10c; doz., 85c

Lily White—A fine snow white variety of good height; large size blossoms, six or seven open at a time. Each 10c; doz., 85c

Mary Pennell—A most beautiful lavender-pink flower on a tall, slender spike; lower petals primrose-yellow with penciling of lavender. Flowers well opened. An extra choice variety.

Each, 25c; doz., \$2.50

GLADIOLI-Cont'd

Myrtle—Clearest rose-pink softly dissolving into a clear creamy-white, daintily ruffled. "The most beautiful pink yet produced in a Gladiolus." Early flowering variety of good size, distinctive in form and color.

Each, 25c; doz., \$2.50

Niagara—A delightful cream shade shading to canary-yellow, slightly splashed with rosepink, throat shaded with carmine. Large, open flowers on a strong, erect spike.

Each, 10c; doz., 85c; 100, \$6.00

Panama—A seedling of "America" and greatly resembles the parent. A clear pink in color with wide open wax-like flowers well arranged on a good spike. Each, 10c; doz., 75c; 100, \$5.00

Peace—Immense white flowers with a lilac feathering in the throat of lower petals; borne on tall graceful spikes. Strong and healthy grower. Each, 10c; doz., 75c; 100, \$5.00

Prince of Wales—A beautiful glistening salmon with slight apricot reflections, melting to soft primrose-yellow, overlaid with deep orange.

An early bloomer and a novelty of great value, eight to ten blooms open at one time on a long, graceful spike.

Each, 10c; doz., 85c; 100, \$6.00

Princepine—Carmine-red flower with a throat of glistening white. Large, well open flowers on a tall spike.

Each, 10c; doz., 85c

Schwaben—A post meritorious variety of wenderful vigor, with strong erect spikes. The strongest growing and largest flower of all the yellow Gladioli. A clear canary-yellow shading to soft sulphur with a small blotch of deep garnet on the lower petals. Each 10c; doz., 75c; 100, \$5.00

War—Deep blood-red, shaded crimson-black. Very tall and conspicuous. Each, 10c; Doz., \$1.00

Wilbrink—Lovely flesh pink with creamy blotch on lower petals. New and very beautiful. One of the earliest.

Each, 10c; doz., 85c; 100, \$6.00

Yellow Hammer—An extra strong grower, producing flowers of pure yellow with a small red mark in the throat. Very effective.

Each, 15c; doz., \$1.25; 100, \$3.00

GLADIOLI, PRIMULINUS HYBRIDS

Highly recommended for cut flowers. Their colors vary from pale yellow to light salmon. These flowers are somewhat different in style from ordinary Gladioli; the petals are quite thin. On account of their delicacy and slender form, these hybrids are destined to be greatly appreciated. Splendid mixture.

Sach, 10c; doz., 75c; 100, \$5.00

BARNARD'S GLADIOLI IN MIXTURE

Barnard's "Royal" Mixture—This is composed exclusively of high grade varieties, including many new and rare kinds. It embraces the greatest possible range of color, and contains the best large flowering sorts.

Doz., 50c; 100, \$4.00

Culture of Gladioli

Planting — Gladioli may be planted any time the ground is in good condition. Large bulbs should be planted five to six inches deep, smaller bulbs less. The roots go down; therefore ground should be well pulverized and enriched below as well as above the bulbs. No fresh manure should be allowed to come in contact with the bulbs.

They should have full exposure to the sun and will not give best results if planted in the shade or where the roots of trees or shrubbery absorb the moisture in the ground. Do not expect to get good results where you could not raise a good hill of potatoes.

Cultivation—Cultivation should be constant and may be begun by raking before the shoots appear. Do not let a crust form around the plants. Gladioli are good feeders and will utilize large amounts of old manure worked into the ground through the season. The new bulbs and bulblets are formed after blooming, so cultivation should be continued for five or six weeks after bloom is cut. If water is given, a thorough soaking once a week is better than a little once a day. A mulch of lawn clippings or other fine material helps to keep the ground cool and conserves moisture but is no substitute for cultivation.

Cultivation kills weeds. Proper cultivation conserves moisture. Cultivation enables the air to change the soil to plant food. Do not forget to cultivate.

Cutting—In cutting, at least four leaves, better six, should be left on the plant to mature the bulb. Proper cutting is good for the bulb. Never allow seed pods to form unless you want the seeds. Seeds form at the expense of the bulb and bulblets.

Cut flowers should be placed in cold water. All wilted flowers, including seed pods, should be removed each day and stem shortened with a slanting cut. Do not crowd into a small vase. Keep vases, or receptacles clean. Set in a cool place at night, but never in a draught. Bloomed out tips make fine corsage bouquets.

Digging—After tops are killed by frost, bulbs should be dug and tops cut close to the bulb. Dry for one or two days in the sun and separate bulblets from bulbs. Bulbs should be kept cool and dry in ventilated crate or basket. They will keep well in conditions favorable for potato storage. Where ground does not freeze bulbs may be left in, but it is not recommended to do so.

Barnard's "Garden Beauty" Collection of Gladioli is made up from choice varieties—25 large Bulbs for \$1.00.

Hardy Garden Lilies



Lilium Auratum

Culture of Hardy Garden Varieties

All herbaceous borders should have a few Lilies scattered through them. The sorts offered below can be planted with excellent results during the early spring months. It is in the hardy border that Lilies do best as they get the benefit of the shade of the surrounding plants which is so necessary for their welfare; other varieties should be planted in the autumn and are offered in our autumn catalog.

autumn and are offered in our autumn catalog.

Lilies thrive best in a well-dug, rich, moist soil. Deep planting is recommended—at least six inches deep for most, and more than that for the Specisum varieties. All Lilies form two sets of roots—one set below and the other above the bulb. For best effects place the bulbs in clumps of six or more, with at least one inch of sand beneath, over, and around each one, then cover with soil. Although these Lilies are generally known as hardy, it is advisable to cover the surface with leaves or litter in late fall as a protective measure against frost.

Lilies love ample drainage. Good results have been obtained by digging a hole in the garden deep enough to allow the placing of a 6-inch flower pot, inverted, therein, fill in around this pot with sand or gravel. Plant your bulb on top of the inverted pot and see that the top of the bulb is at least 6 inches below the surface. This would mean that the hole would have to be at least 14 inches deep.

PERENNIALS

"Perennials are the best and most satisfactory source of cut flowers. They need only be planted once and will thrive and produce flowers in abundance for years. Perennials are best located either in the garden or along the edge of the ground. They are excellent in front of taller growing masses of shrubbery, but should be located so as to get the direct rays of the sun at least one-half the day. Perennials take half the care required in the growing of Annuals. They wonderfully repay any one for a few hours work each year, and after the first season require very little hoeing and weeding."

List of Perennials which are easy to grow:

Aquilegia Achillea Roseum Boltonia Chrysanthemum-Shasta Delphinium Pyrethrum Auratum (Golden Japan Lily). This superb Lily has
flowers 8 to 10 inches in diameter composed of six white petals, thickly studded with
rich chocolate-crimson spots and a bright golden
band through the center of each petal; exquisite
vanilla-like perfume. This variety is peculiar in
that it does not take kindly to having any kind of
manure near its roots. Suitable also for pots
indoors.

	Each	Doz.
Small Bulbs	\$0.30	\$3.00
Medium Bulbs	40	4.00
Large Bulbs	50	5.00

Auratum Platyphyllum. Similar to Lilium Auratum, but larger and finer in all respects. Its flower is from 10 to 12 inches across, petals broader and more overlapping than Lil. Auratum. Is especially noted for its lustrous broad leaves which give it added attraction. The flower is generally studded with crimson-chocolate spots like the Auratum Lily. An exceptionally fine Lily.

Each, 75c; doz., \$7.50

Auratum Pictum. Similar in form to Lil. Auratum but tipped with crimson at the ends of the yellow band. Each, 75c; doz., \$7.50

Auratum Macranthum. This is a giant form of the golden-banded Lily.

Each, 75c; doz., \$7.50

Batemanni. A strong variety, about 2½ feet high, with clusters of 5 to 10 flowers of a rich apricot color. Blooms in July or August. Very handsome. Each, 25c; doz., \$2.50

Elegans Red. Beautiful vermilion, with a few black spots; overspread with a bright lustre; petals broad and somewhat rounded.

Beautifully formed. Each, 30c; doz., \$3.00

Elegans, Mixed, all colors and shades.

Each, 25c; doz., \$2.50

Hansonii. A very rare and beautiful Lily, unsurpassed in vigor of growth. Blooms extra early. Flowers are large, of a bright yellow tinged orange and spotted maroon, with thick wax-like petals, appearing in clusters of 8 to 12 flowers. One of the rarest and finest Lilies known.

Each, 75c; doz., \$7.50

Henryli. A rare and beautiful Lily from the mountains of China. It is very hardy, a strong healthy grower and without doubt one of the best Lilies for garden culture. The flower stalks, 3 to 5 feet high, carry 5 to 8 flowers each. In color it is a rich apricot-yellow, lightly spotted with brown. Sometimes called "The Yellow Speciosum."

Rubellum. A very early variety. The delicate pink flowers are showy and lasting. Not as hardy and robust as the Speciosum varieties, it is advisable to cover slightly during the winter months.

Each, 25c; dos., \$2.50

Hardy Lilies — Continued

LILIUM REGALE OR MYRIOPHYLLUM

It is absolutely hardy, and is excellent for forcing. It has been predicted that this will become the Easter Lily of the future, and being so hardy, may be grown at home. The flowers are white, slightly suffused with pink on the outer edges, with a beautiful shade of canary yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the Jasmine, and lacking the heavy, oppressive odor of most Lilies. Blooms out-of-doors early in July. Thrives in any good soil not too wet.

4 to 5 inch circ., Each, 75c; doz., \$7.50 6 to 7 inch circ., Each, \$1.00; doz., \$10.00

8 inch circ., Each, \$1.25; doz., \$12.50





Lilium Bubrum

Speciosum Rubrum, or Roseum. White, heavily spotted with rich,

rosy crimson spots. This variety is largely grown for cut flowers and for garden adornment it is one of the best in our list. Its tall stems three to four feet tall are surmounted with flowers. One of the most popular garden varieties; blooms in August.

	Each	Doz.
Small Bulbs	\$0.30	\$3.00
Medium Bulbs	40	4.00
Large Bulbs	50	5.00

Speciesum Album. Grows about four feet tall. Fragrant, glistening pure white flower. The best pure white garden Lily. Suitable also for pot culture.

ŀ	Sach	Doz.
Small Bulbs\$	0.40	\$4.00
Medium Bulbs	.50	5.00

Tigrium (Single Tiger Lily). Flowers orange-red, spotted black.

Each, 25c; doz., \$2.50

Tigrium f. pl. (Double Tiger Lily). Very large, double flowers.

Each, 25c; doz., \$2.50

Calla Lilies (Not Hardy)

The varieties offered below succeed best when treated in the same manner as Gladioli, Tuberoses and other summer-flowering bulbs. The bulbs should be planted in the open border when danger from frost is over in spring, and will then flower during the summer months. In the autumn dig and store through the winter as you would potatoes.

White—(Richardia Aethiopica). The old fashioned waxy-white flower.

Small size, each, 25c; doz., \$2.50 Medium size, each, 35c; doz., \$3.50 Large size, each, 50c; doz., \$5.00 Golden Yellow—(Richardia Elliottiana). This is the best of the Yellow Callas, its flowers being as large as the popular white variety, but of a rich lustrous golden-yellow of velvety texture; the foliage is dark green, with translucent creamy-white spots, which adds much to its beauty. Strong bulbs.

Small size, each, 40c; doz., \$4.00 Medium size, each, 50c; doz., \$5.00 Large size, each, 60c; doz., \$6.00

Hardy Perennial Plants

Perennials are perfectly hardy in the open ground, and die down only to the roots at the approach cold weather. Once planted, they become a lasting pleasure.

Plants should be forwarded by express; we do not pay the charges.



Canterbury Bells and Foxglove

Achillea—(Milfoil)

Millefolium Roseum—Rose-pink flowers produced in profusion all summer. 18 profusion inches high. Good for cutting

Each, 25c; doz., \$2.50

Ptarmica, fl. pl., "The Pearl"—Clusters of charming button - like white flowers on a good cutting stem. 2 ft., June to August.

Ptarmica, fl. pl., "The Pearl"—Clusters of charming button - like white stem. 2 ft., June to Each, 25c; doz., \$2.50

Aconitum—(Monk's Hood)

Late flowering plants with bold spikes of hood-shaped flowers, one of the finest blues for the hardy border. At best massed with shrubs.

Napellus—Dark blue, 3 to 4 ft. August. Each, 30c; doz., \$3.00

-A dwarf variety, with pale blue flowers. 18 inches, September-October. Each, 35c; doz., \$3.50

Anchusa—(Alkanet)

Italica, Dropmore—Tall spikes of beautiful blue flowers blossoming all summer. 4 to 5 ft. high. Should be treated as biennials.

Each, 25c; doz., \$2.50

Anemone Japonica (Japanese Windflower)

They grow to two or three feet and are in bloom from August till mid-November, furnishing abundant cut flowers and a brilliant display.

Queen Charlotte—Very large semi-double flowers of La France pink.

Each, 40c; doz., \$4.00 Whirlwind-Large white.

Aquilegias or Columbines

For planting in permanent borders or edges of shrubbery this old-fashioned favorite is one of the best. They thrive well with ordinary garden culture, but do best in partially shaded nooks.

Aquilegia-Coerulea—(Rocky Mountain Columbine.)
Sepals deep blue, petals white.
Each, 25c; doz., \$2.50

Long-spurred Hybrids—This is the most admired type of Columbines. The plants are of strong thrifty growth. The flowers of largest size vary in color through charming tones of cream, pink, lavender, blue, white, etc. Mixed colors.

Each, 25c; doz., \$2.50

Artemisia

Lactifiora—Panicles of creamy white flowers, most attractive when in bud. Distinct and ornamental in the hardy border, and of some value for cutting. 3½ to 4½ feet, August-September. Each, 30c; dos., \$3.00

Aster, Hardy-(Michaelmas Daisy)

Hardy Asters are of easy cultivation in ordinary soils and exposures, and are among the best plants for the hardy border and for cut flowers. Flowers appear in the autumn and are brilliant blue, purple

Each, 25c; doz., \$2.50

Bellis—(Double English Daisy)

Perennis—Dwarf plants, particularly desirable for borders, April to June. Will stand the winter if given protection, but for best results should be sown each year. white and pink.

Mixed shades of rose. Each, 25c; doz., \$2.50

Bleeding Heart

Dicentra Spectabilis—Charming hardy plant with much-cut foliage and flowers of interesting structure. Easily cultivated and very highly prized for border and cemetery planting because of their bushy growth. Flowers are of rose-colored, heart shaped, produced in early spring.

Each, \$1.00

Bocconia

Cordata—A hardy perennial of tropical-like growth,
with foliage of an excellent green, and
beautiful plume-like flowers of creamy-white.
Will reach a height of 7 to 8 feet if planted in
rich soil and given plenty of room. Plant at the
back of the border, or in bold groups. July and
August.

Each, 25c; doz., \$2.50

Boltonia—(False Chamomile)

A showy native hardy perennial plant with large aster-like flowers and attractive grey-green foliage. The masses of bloom make a fine effect in the late summer and fall months. May also be cut.

Asteroides-White, 5 to 6 ft. Each, 25c; doz., \$2.50

Latisquama—Lavender-pink. 3 to 5 ft. Each, 25c; doz., \$2.50

Buddleva

(Butterfly Bush or Summer Lilac)

agnifica—Usually classed as a shrub, but is very desirable for large plant borders. Flowers continuously all season. Magnifics-

Canterbury Bells or Campanulas

Bell-shaped flowers, equally useful for flower border, shrubbery or wild garden. Biennial.

Campanula Medium—(Canterbury Bell.) White, Blue, Rose and striped.

Each, 25c; doz., \$2.50

Campanula Carpatica—(Carpathian Hare Bell.) Ideal for border or rockery planting, being about 8 inches high; flowers from June till frost. Blue or White, each separate.

Each, 25c; doz., \$2.50

Pyramidalis—(Chimney Bell-Flower). Blue or white flowers on tall stalks, 4 to 6 ft., July.

Each, 25c; doz., \$2.50

Centaurea

Montana—(Perennial Corn Flower). Makes a fine display in the border, also excellent for cutting. Violet-blue flowers blooming from July to September. 2 feet high. Each, 25c; doz., \$2.50

Chrysanthemums—(Hardy)

These are universally popular for outdoor bedding. These are universally popular for outdoor bedding. They produce a lavish profusion of blooms, giving color, life and beauty to the garden just at a time when other plants have been destroyed by frost or looking their worst. They are quite hardy if planted in a well-drained position, and, with a slight covering of leaves or litter during the winter, will take care of themselves after once planted. We offer the following choice named varieties at

Each, 25c; doz., \$2.50

Autumn Glow, pinkishbronze. Indian, red.

Old Homestead, pink. Victory, white. Golden Queen, yellow.

Coreopsis

Lanceolata Grandiflora — One of the most hardy plants. The flowers are a rich golden-yellow, of graceful form and invaluable for cutting; the main crop comes during the latter part of June, but it continues in bloom the entire summer and autumn. It succeeds everywhere; 2 to 3 feet.

Each, 25c; doz., \$2.50

Daisies

Shasta Daisy—(Alaska.) Graceful and elegant purewhite flowers with yellow centers; lasts a long time. In bloom from June to October. Extra fine cut flowers. Each, 25c; doz., \$2.50 King Edward VII — Very large, handsome pure white flowers of fine form.

Height, 2½ ft. Each, 25c; doz., \$2.50

Day Lilies

Funkia Coerulea — (Blue Day Lily.) Blue, broad green leaves.
Each, 35c; per doz., \$3.50

Funkia Subcordata Grandiflora Alba—(White Day Lily, August Lily.) Pure white, lily shaped, fragrant flowers. Lily.) Pure white, lily shaped, fragrant flowers. Each, 45c; per doz., \$4.50

Hemerocalis Flava—The best known variety, very fragrant, deep lemon - yellow flowers in June and July. Each, 25c; doz., \$2.50

Hemerocalis Fulva—Grows from four to five feet high, with trumpet - shaped flowers of a neutral orange color with darker shadings; June and July. Each, 25c; per doz., \$2.50

Delphinium or Larkspur

These are deservedly one of the most popular subjects in the hardy border, bold, attractive, and highly prepossessing plants of eastest culture; perfectly hardy.

Each, 30c; per doz., \$3.00

Delphinium Belladonna—The freest and most continuous blooming of all.
The clear turquoise-blue flowers are not surpassed by any.

Delphinium Formosum — Dark blue, white center, spikes three to four feet tall, vigorous; free blooming.

English Hybrids — The plants are of strong, vigorous habit, with large flowers on spikes two feet and over long, the majority running in the lighter shades of blue.



Hardy Ferns

A HARDY FERN BED FOR ONLY \$5.00

We offer prepaid by parcel post for \$5.00, the following collections of hardy ferns, heavy roots, not less than five years old. Our stock is grown in northern Minnesota, and shipments are made directly

Spring shipping season ends July 1st. Fall season begins October 15th.

No. 1.—General Collection:

8 Ostrich Plume Ferns—"Palm of the North".

8 Lady Ferns (Asplenium Felix Faemina)

4 Flowering Ferns. (Osmunda Claytoniana).

These three varieties represent three distinct types, which will make a splendid combination as a background for perennial plantings in open or half shady places. Five or more of a variety in a group give the best effect.

No. 2—For dry, shady places:
10 Dagger Ferns (Aspidium Acrostichoides)—
Christmas Fern.
6 Hayscented or Gossamer Ferns (Dicksonia Punctilobula).

6 Flowering Ferns (Osmunda Claytoniana).

-For moist, shady places: Maidenhair Ferns (Adiantum Pedatum). Dagger or Christmas Ferns. Ostrich Plume Ferns.

4 Cinnamon Ferns (Osmunda Cinnamomea). 4 Lady Ferns.

No. 4 For wet ground:
4 Marsh Shield Ferns (Aspidium Thelypteris).
10 Sensitive Ferns (Onoclea Sensibilis).
6 Royal Ferns (Osmunda Regalis).
4 Flowering Ferns (Osmunda Claytoniana).

One half of any of the above assortments will be sent by parcel post prepaid for \$3.00.

Full cultural directions will be supplied with each assortment.

Forget-Me-Not

Myosotis Palustris Semperflorens—A variety that is hardly ever out of flower; useful in a shady spot in the border and for forcing for cut flowers in the winter.

Each, 25c; per doz., \$2.50

Foxglove (Digitalis)

The strong flowerstalks frequently 4 to 6 feet high — rising from rich and luxuriant masses of leaves, always give an appearance of strength to the hardy border, and during their period of flowering dominate the whole garden. (Biennial.)

Each, 25c; per dos., \$2.50

TALL BEARDED IRIS

Iris are among the most desirable and easiest grown of our spring-flowering hardy plants, producing wy flowers of exquisite coloring, combining the richest and most delicate tints.

For the gardens of the middle west there is no better plant than the Bearded Iris, which thrives in the drought of the summer after the brilliant "rainbow" colored flowers of May and June.

Dust with gypsum, plant 12 inches apart in clumps of three or more in a well drained sunny location and while placing the long roots deep, leave the rhizome half uncovered. Avoid fresh manure. Use bone

Experts advise planting ten light colored sorts. Madame Chereau, Togo, Mrs. H. Darwin, to one dark variety, Caprice or Monsignor.

Figures before name give the rating of the Iris Society, (100 is perfection) followed by height in inches and time of bloom, while "S" and "F" indicate the erect "standards" or the drooping "falls". Price, 20c each; 3 for 50c, unless otherwise noted.

Choice and Standard Sorts

REDDISH-PURPLE

- 24 inch, early. S. lavender, F. violet-purple. Flowers very large. Walhalla. Each, 25c; 3 for 65c
- illiamson. 42 inch, early. Heads the list of American S. light violet, F. rich velvety (96) Lent A. Williamson. introductions. Each, \$1.00 purple.
- 28 inch, mid-season. S. soft violet rose, F. velvety crimson, Blends with pink sorts and fine for Each, \$1.00; 3 for \$2.70 (83) Seminole. 28 orange beard. massing.
- (75) Caprice. 24 inch, early. Beautiful wine color; fragrant.
- (78) Kochi. 24 inch, early. Very dark reddish-purple. Plant with Florentine Alba
- (84) Monsignor. 30 inch, late. S. deep violet, F. velvety purple.
- (81) Parc de Neuilly. 28 inch. Mid-season, sturdy. Large flowers of rich navy Each, 30c; 3 for 80c

PINK-LILAC

- (73) Her Majesty. 24-inch, midseason. S. rosy pink, F. deeper pink, distinctly veined.
- 36-inch, late. S. grayish-pink, F. soft old rose. Indescribably beautiful. Each, 25c; 3 for 65c (86) Isoline. 36-inch, late.
- (81) Lohengrin. 28 inch, mid season. Flowers large orchid-pink, charming with Day Lilies.
- (75) Queen Alexandra. 30-inch, late. Large rosy-lilac flowers, yellow beard. Each, 15c; 3 for 40c
- (74) Queen of May. 30-inch, mid-season. Lovely pink self. Charming and popular.
- (90) Queen Caterina. 40-inch, mid-season. Regal in its height and size of lavender-purple flowers. Effective alone, backed Each, \$2.00; 3 for \$5.00

YELLOW

- Gracchus. 18-inch, early. S. pale yellow, F. yellow striped red. Fine.
- (76) Sherwin Wright. 24-inch, early. Fine, clear yellow.

 Each, 30c; 3 for 80c
- (86) Afterglow 36-inch, mid-season. An indescribable combination of yellow, pink, and gray. Should be alone. Each, 75c; 3 for \$1.80
- (70) **Flavescens.** 30-inch, mid-season. Soft yellow sweet scented. An excellent harmonizer.
- (79) Loreley. 30-inch, mid-season. S. yellow, F. deep blue, edged with cream. Free
- (68) Mrs. Neubronner. 22-inch, mid-season. A free blooming, golden yellow self.

BRONZE

- (83) Prosper Laugier. 34-inch, mid-season. S. smoky-bronze. F. ruby purple. Free bloomer. Each, 30c; 3 for 80c
- (84) Quaker Lady. 38-inch, mid-season. S. smoky, lavender, tinted with yellow; F. blue and primrose yellow. Each, 40c; 3 for \$1.05
- (79) Iris King. 28-inch, late. S. fine yellow, F. deep velvety crimson, edged with gold. Well named but shy bloomer.

 Each, 35c; 3 for \$1.00

 (84) W. J. Fryer. 30-inch, late. Flowers large.
 S. bright yellow, F. maroon edged old gold.

 Each, \$1.00; 3 for \$2.70

BLUE-LILAC

- (65) Gertrude. 34-inch, very early and fragrant. Lovely violet blue.
- (91) Lord of June. 40-inch, mid-season. S. lavender blue, F. rich violet purple. Aristocratic in vigor and size of bloom.

 Each, \$1.50; 3 for \$4.00
- (79) Mady Carriere. 30-inch. S. and F. of beautifully contrasted blue shading to rich yellow. Each, \$1.00; 3 for \$2.70
- (83) Pallida Dalmatica. 40-inch, late. Fragrant Exquisite blending of blues, flushed with pink. Universal favorite. Each, 30c; 3 for 80c

WHITE

- (76) Florentina Alba. 24-inch, early, Pearly white, sweet scented. Fine
- (76) Dorothea. 18 inch, early. Large petals, faintly veined with blue, arranged like Japanese Iris. Each, 25c; 3 for 65c
- (80) Fairy. 40 inch, mid-season. Fringed with blue, golden beard; very fragrant.
 Each, 25c; 3 for 65c
- (68) Mrs. H. Darwin. 24 inch, mid-season. A very free bloomer. Foil for Mrs. Neubronner.
- (83) White Knight. 18 inch, mid-season. The best white, Each, 50c; 3 for \$1.35
- Tall, late. S. large and white; F. pansy blue, edged white. Each, 30c; 3 for 80c (84) Rhein Nixe.

FRILLED

- (81) Ma Mie. 30 inch, mid-season. Pure white, flowers large and delicately "stitched" and frilled. Each, 40c; 3 for \$1.05
- (74) Mme. Chereau. Tall, mid-season. Popular favorite to work into groups of darker Iris.
- (79) Parisiana. 30 inch, late. S. White, spotted with lilac. Strong grower, and large flowers.
- Stately, fragrant, white flowers beautifully veined with lilac. Late. Admiral Togo.

Price, 20c each; 3 for 50c, unless otherwise noted.

Iris Pumila—Early Dwarf Bearded

Especially suitable for edging of beds and walks, and lovely with early tulips.

Atroviolacea. Deep purple. Each, 20c; 3 for 50c Clear deep yellow. Each, 25c; 3 for 65c Excelsa. Hybrida Schneecuppe (Snow Cup). Fine large-flow-ering white. F. slightly reticulated yellow at the base. Each, 25c; 3 for 65c

Beardless Iris

SIBERIAN

Orientalis (Syn. Sanguinea). 18-inch, late. Intensely brilliant blue.
Each, 15c; 3 for 40c

Orientalis Snow Queen. Large ivory-white flowers. Late. Each, 20c; 3 for 50c

JAPANESE IRIS

These superb varieties need plenty of water at blooming time, but no lime. For cut flowers, gather in the bud. Names are uncertain. We offer four varieties, selected by color, blooming in the following succession, beginning in late June:

3 huge crepe-like petals, feathered with blue. Each, 35c; 3 for \$1.00

6 petaled, white, yellow veined center. Each, 35c; 3 for \$1.00 Second.

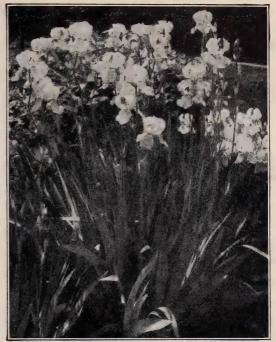
Third. 3 petaled, lilac, veined with white. Each, 30c; 3 for 80c

Latest. 6 royal purple petals; golden center. Each, 45c; 3 for \$1.20

One plant each of the above four varieties.

Per collection, \$1.25 Japanese Iris Collection.

Each, 30c; Dozen, \$3.00 Mixed Japanese Iris.



Tall Bearded Iris

Herbaceous Peonies

These superb flowers, hardy and easy of culture, should be in every garden. They differ from the Iris in that they require several years before coming to their best, yet once established, thrive for many years without moving. They are perfectly hardy, requiring no protection even in the most severe climate. While many are planted in spring, planting in September to November saves a years' time, and the root suffers less. A good rich soil is essential, using bone meal as a fertilizer, avoiding fresh manure. An important point to observe is that Peonies should not be planted too deep. Place the roots so that the crowns are covered with 2 inches of soil—no more.

We offer the following list of the best thoroughly tested varieties, 3 to 5 eye strong field grown roots, for convenience arranged under color and in the approximate order of blooming, earliest at the top.

Figures after the name indicate the rating of the American Peony Society.

White

(9.3) Large Globular flowers, flecked with crimson, fragrant. Each, 50c Festiva Maxima. Most popular white.

(8.1) Superb and fragrant bloom with sulphur tinge to Duchess De Nemour. Each, 60c collar. Queen Victoria. (6.8) Free, clustered bloom fragrant. "One of the best every day Each, 60c

La Tulipe. (7.5) Lilac-white, outer petals striped with crimson. Large, flat, rose-type; fragrant; very tall, strong growth. Late mid-season. Each, 75c

Courourne D'Or. (8.1) Semi-rose type with ring of yellow stamens. Waterlily fragrance. Each, 60c

Marie Lemoine. (8.5) Strong and vigorous. Bloom in clusters. Latest and excellent for cut flower market. Each, \$1.00

Pink

Edulis Superba. (7.6) Strong grower, free bloomer, and very fragrant. Excellent for cut flowers. Rose pink. cut flowers. Rose pink.

Mons. Jules Elie. (9.2) Large compact flower of deep pink with silvery sheen.

Very large petals which are a more intense pink at the base. Early mid-season.

Each, \$1.00

Asa Gray. (8.1) Extremely full flower of pale flesh color, splashed with deeper tints. Very striking and effective. Mid-season. Each, \$1.00 Venus. (8.3) Exquisite pointed bud, opening into a large compact flower of delicate shell-pink with a collar of flesh-white. Extra good both as a garden flower and for cutting. Midseason.

Each, \$1.50

Red

Rubra Officianalis. Earliest and most brilliant red Peony, not very double. Each, \$1.00

Adolphe Rousseau. (8.5) Semi-double brilliant gar-net bloom. One of the best f the best Each, \$2.00 early reds.

(7.1) Deep purple, crimson reflex. Free bloomer; compact rose type. Late mid-Delachei. Eacn, 75c

Felix Crousse. (8.4) Ruby red, large, compact, fragrant bloom. A most dependable red for cutting. Each, \$1.00

(8.8) Brilliant velvety crimson, compact bloom. A favorite.

Each, \$2.00 Karl Rosenfield. (8.8)

(7.2) Deep rose carmine, fragrant bloom. Considered best of very Each, 75c Rubra Superba. late reds.

Peonies Under Color

Strong 3 to 5 eye divisions.

Un-Named Pinks. Each, 50c; doz., \$5.00 Un-Named Whites. Each, 60c; doz., 6.00 Un-Named Reds. Each, 75c; doz., 7.50

MIXED PEONIES

For those who wish a show of flowers without regard to color, we can supply strong field-grown clumps, including many choice sorts, at \$1.00, \$1.25, and \$1.50 each, according to size.

Hardy Perennial Plants—Continued

Gaillardia (Blanket Flower)

Grandifiora—One of the showiest hardy plants, growing about 2 feet high and succeeding in any soil in a sunny position; beginning to flower in June; they continue the entire season. The large flowers are of gorgeous coloring. The center is dark-red brown, while the petals are marked with rings of brilliant crimson, orange and vermilion; excellent for cutting.

Each, 25c; per doz., \$2.50

Gypsophila (Baby's Breath)

Will thrive in any soil in a sunny position, and on account of their gracefully arranged large panicles of minute flowers should be in every garden. Paniculata—A beautiful old-fashioned plant, possessing a grace not found in any other perennial. Each, 25c; per doz., \$2.50

Helenium—(Sneezeweed)

Handsome plants, allied to the sunflowers. Of the easiest culture, forming dense masses of blooms in late summer and autumn.

Riverton Gem—A beautiful new variety. Old-gold, suffused with bright terra-cotta, changing to wallflower red. Each, 30c; doz., \$3.00

Hibiscus (Mallow)

A desirable border plant, succeeding in any sunny position, but doing best in a damp place; grows 3 to 5 feet high, with large foliage and large, showy flowers of delicate coloring, produced during the entire summer.

Tallow Marvels—A robust type of upright habit,
producing an abundance of flowers
of enormous size in all the richest shades of crimson, pink and white; mixed colors. Mallow Marvels-A Each, 35c; per doz., \$3.50

Crimson Eye—Creamy white flowers, large crimson Each, 35c; doz., \$.3.50

Hollyhocks

Growing 5 to 6 feet tall, these plants produce a pleasing effect planted either in rows on the lawn or among shrubbery. They require a deep rich soil, and a sunny situation, and will repay for a little extra attention given them. They require a rich, deep soil well drained.

Double White, Salmon, Yellow, Pink, Maroon. Each, 25c; per doz., \$2.50

Single—Many prefer the single-flowering Hollyhocks.

They are usually of freer growth than the doubles, and present a very handsome appearance when covered with their artistic blossoms, mixed.

Each, 25c; per doz., \$2.50

Lily of the Valley

Field-grown clumps, for outdoor planting. Each, 50c; doz., \$5.00

Lychnis—(Campion)

Are of the easiest culture, thriving in any soil, nalcedonica—A most desirable plant; heads of brilliant orange-scarlet in June and July.

Each, 25c; doz., \$2.50 Chalcedonica

Lysimachia

Nummularia—(Creeping Jenney or Moneywort.) Val-uable for planting under trees or shrubs where grass will not grow, where it quickly forms a dense carpet. Each, 25c; doz., \$2.50

Monarda—(Bergamot)

Showy plants, growing from two to three feet high, succeeding in any soil or position, with aromatic foliage; flowers during July and August.

Didyma—(Oswego Tea.) Flowers bright scarlet.

Each, 25c; doz., \$2.50

Pentstemon-(Beard Tongue)

Most useful showy perennials, either for the bor-er or rockery. Each, 25c; doz., \$2.50 der or rockery.



Hardy Phloxes-(Phlox Decussata)

This is one of the most useful flowers for summer decorations, the colors varying from pure white to deep crimson. To obtain good results it is wise to manure the soil well and give them a fairly open situation, and an occasional soaking of water during very dry weather.

The flowering period is from the early part of July to the middle of September and they grow to heights varying from 2 to 3 feet. If the first flower spikes are cut off as soon as over, and the plants are given a good soaking, a second crop of bloom extending until late in fall may be expected.

Each, 35c; doz., \$3.50

Bridesmaid—Tall, pure white with large crimson carmine eye.

Champs Elysee—Rich, purplish-crimson.

Champs Elysee-Rich, purplish-crimson.

Eclaireur-Bright carmine with light halo. Large flowers.

Ferdinand Cortez-Deep crimson.

F. G. Von Lassburg—Splendid pure white; very large trusses; free bloomer; mediumearly.

Miss Lingard—(Suffruticosa). Pure white with pale pink eye, long graceful panicles. One of the best phloxes in cultivation. Blooms in June and again in September and October.

Mrs. Jenkins—Flowers large, pure white. Early, free bloomer.

Rheinlander—A beautiful salmon-pink, flowers and trusses of immense size.

trusses of immense size.

Rijnstroom—Lively rose-pink, immense trusses of flowers.

Riverton Jewel—A lovely shade of mauve-rose.

R. P. Struthers—Tall, rosy-carmine with claret-red eye, fine.

Thor—A beautiful lively shade of deep salmon-pink, suffused and overlaid with a scarlet glow. Has aniline-red eye.

Phlox divaricata—(Native). Has good dark green foliage and lovely soft lavender flowers. Excellent for the front of the herbaceous border, or as a cover plant in damp places. May be used in combination with almost any other flower. Somewhat fragrant.

Physostegia—(False Dragon Head)

One of the most beautiful of our mid-summer flowering perennials, forming dense bushes three to four feet high, bearing spikes of delicate tubular flowers not unlike a gigantic heather.

Virginica—Bright but soft pink. Each, 25c; doz., \$2.50 Each, 25c; doz., \$2.50 Virginica Alba-Pure white.

Pinks-(Hardy Garden)

Dianthus Plumarius—(Hardy Garden or Pheasant
Eye Pinks.) These "Clove
Pinks," so much used for edgings of old-fashioned
gardens, bloom most profusely during May and
June. They grow about a foot high, and bear
double flowers resembling small carnations.
Each, 25c; doz., \$2.50

Platycodon

(Balloon Flower, or Japanese Bellflower)

One of the best perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery.

Grandiflorum—Large blue flowers. 2 ft. Each, 25c; doz., \$2.50 Grandiflorum Alba-White. Each, 25c; doz., \$2.50 Mariesi — (Dwarf Japanese Bellflower.) Large, saucer-shaped, violet-blue flowers. Compact, 1 ft. Each, 25c; doz., \$2.50

Poppy— (Oriental)

Perennial poppies are of the easiest culture; almost any kind of soil suits them, but they do best in deep, rich loam; give them water occasionally during dry spells in the early part of the season; mulch with stable litter in fall, and they will increase in size and floriferousness for several years. After flowering the plants die back, usually reappearing along in early September, or as soon as the weather gets cool. During this resting period care should be taken in cultivating the beds that the roots are not injured, any disturbance at this time usually resulting in failure. Each, 30c; doz., \$3.00

Pyrethrum Roseum

Hybridum—Too much cannot be said in favor of this grand hardy perennial, which will thrive in any good garden soil where there is good draining and full exposure to the sun. The main season of blooming is in June, but if the old flower stems are removed they will give a fair sprinkling of flowers in the autumn.

Each, 25c; doz., \$2.50

Rudbeckia- (Cone-flower)

Grow and thrive anywhere giving a wealth of bloom, which are well suited for cutting.

bloom, which are well suited for cutting.

"Golden Glow"—Produces masses of double goldenyellow Cactus Dahlia-like flowers
from July to September. Each 25c; doz., \$2.50

Newmani—Dark orange-yellow flowers, with deep
purple cone three feet high; flowers from
from July to September. Each, 25c; doz., \$2.50

Purpurea—(Giant Purple Cone-flower.) Flowers
about four inches across, of a reddishpurple with a large cone-shaped center of brown;
three feet; blooms from July to October.
Each, 25c; doz., \$2.50

Salvia— (Meadow Sage)

Azurea—A Rocky Mountain species, growing 2 to 3 ft. high, producing during August and September pretty sky-blue flowers in the greatest profusion.

Each, 25c; doz., \$2.50

A LITTLE BOOK OF PERENNIALS

By PROF. ALFRED C. HOTTES

For the amateur and professional. Companion book to the Little Book of Annuals Price, paper cover, \$1.10; Cloth cover, \$1.65



Oriental Poppy

Sedum—(Stonecrop)

A class of plants particularly adapted for carpeting very dry, sandy or rocky places in open sun.

Spectabile—A foot high, or more. The most beautiful variety of all the Sedums, with large glaucous leaves, with rosy-purple flowers borne in large, flat, open heads, commencing to bloom in August and remaining in bloom for two months or more. Will stand extreme cold, heat or wet, and do well in shaded spots.

Each, 25c; doz., \$2.50

Sweet William

Dianthus Barbatus—These old-fashioned favorites are prized border plants. There is a great variety of rich colors, and the flowers are very fragrant.

Each, 25c; doz., \$2.50

I ritoma- (Red-hot Poker or Torch Lily)

Pfitzeri—(The Everblooming Flame Flower.)—With their large spikes of rich orange-scarlet flowers, they produce a striking effect planted either singly in the border, or in masses. Succeed well in ordinary garden soil, but respond quickly to liberal treatment. The safest method of wintering is to dig up the roots in the fall and bury in sand in a cool cellar. In bloom from August to October, 3 to 4 ft.

Each, 35c; doz., \$3.50

Valeriana—(Garden Heliotrope)

Officinalis—Produces showy heads of rose-tinted white flowers during June and July, with a delicious strong, heliotrope odor. 3 to 4 ft. Each, 25c; doz., \$2.50

Veronica—(Speedwell)

Spicata—A valuable border plant, with long spikes of bright blue flowers, blooming in July and August. 1½ to 2 ft. Plant in a sunny location.

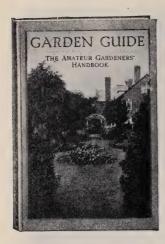
Each, 25c; doz., \$2.50

Vinca Minor — (Periwinkle or Trailing Myrtle)

Dwarf evergreen trailing plant, is used for car-peting the ground where it is too shady for other plants to thrive. Each, 25c; doz., \$2.50

Yucca Filamentosa — (Adam's Needle)
A hardy evergreen plant with long, narrow leaves
that are green the year round. The flowers are
white, on long spikes.

Each, 35c; doz., \$3.50



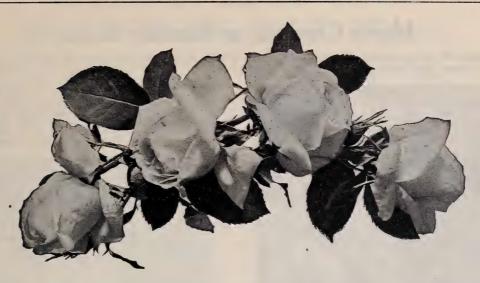
Gardening Books

"Never one who gardens but a book or books is as requisite to him as a spade or a trowel."



(The prices mentioned below include postage, and are subject to change without notice.)

American Fruits (Samuel Fraser)	Milady's House Plants (F. E. Palmer)
climbing plants and ground covers for various purposes. Fritz Bahr's Commercial Floriculture\$5.00	which makes his writings so interesting and instructive for the amateur as well as professional grower.
A practical manual for the retail grower, based on the author's experience of half a century.	Plant Breeding (L. H. Bailey)
The Complete Garden (Albert D. Taylor)\$6.00 For the gardener from Maine to California, Canada to Texas. A comprehensive treatise, with most useful cross reference lists render- ing quickly available any desired information on gardening.	Practical Plant Propagation (Alfred C. Hottes).\$2.15 An exposition of the art and science of increasing plants as practiced by the nursery man, florist and gardener.
Garden Guide (Amateur Gardener's Handbook) ———————————————————————————————————	Pruning Manual (L. H. Bailey) \$2.79 Principles and Practice of Pruning (M. G. Kains) \$2.79 Rhubarb Culture. The New (G. B. Fiske) Cloth, \$0.99
Manual of Tree and Shrub Insects (Ephraim	Roses and Their Culture (S. C. Hubbard) \$1.40 A treatise on the propagation, culture, and history of the Rose.
Porter Felt) \$3.75 Gives a readable and practical summary of the insect problem in its relation to both forest and shade trees.	How to Grow Roses (Robert Pyle)\$2.00 A practical handbook for rose lovers, both amateur and professional. A most acceptable gift for a gardening friend.
Practical Landscape Gardening (Robert B. Cridland) \$2.65	The Strawberry (Samuel Fraser) \$1.40
A helpful book containing detailed sketches and planting plans, covering in a practical way the problems which confront the home	Sweet Peas and How to Grow Them (H. H. Thomas)
builder and owner.	Tomato Production (Paul Work)
Lilies. A Flower Monograph (H. S. Adams)\$1.40	Trees as Good Citizens (Chas. Lathrop Pack)
A Living from Eggs and Poultry (N. W. Brown)	Tells the whole story of the shade tree.
The right way in poultry raising plainly shown. In this book special effort is made	The Vegetable Garden (Adolph Kruhm) \$1.90
to help the beginner.	Productive Vegetable Growing (John W. Lloyd).\$3.2



HINTS ON THE PLANTING AND CARE OF ROSES

The first essential for success in the growing of roses is the proper location of the rose-bed. A site should be selected which is accessible to the sun at least half the time, yet partly protected from strong sweeps of wind. A windbreak of shrubs or trees is desirable, but this must not be too close, or the roots will be robbed of the nourishment they need from the soil.

The soil should be rich, and carefully prepared to a depth of at least 18 inches. The most satisfactory fertilizer to use is well-rotted animal manure, of which a liberal quantity may be thoroughly mixed with the soil. Ground bone meal, at the rate of a trowelful for each plant, may also be added, as well as a little ground lime stone or hardwood ashes, to rectify any tendency to sourness of the soil.

Another important point is good drainage. Roses need a great deal of water, but it must be allowed to pass off quickly, and if the subsoil is heavy, there should be an extra six inches of prepared material, including stones, sod, etc., which will permit the water to drain away easily.

It is suggested that your ordering be done as early as possible, so that you may be assured of getting the assortment of varieties desired, and stock which is fresh and in the best possible condition for good

Selection may be made from the varieties listed on the following pages, all of which are hardy and dependable. As a nucleus for your rose garden, we offer an assortment consisting of six Hybrid Tea Roses, selected to give you the widest range of color and type. Included are several of the most recent introductions, the beautiful Los Angeles and Souvenir de Claudius Pernet. This assortment will give you a very satisfactory foundation for your rose garden, and may be added to according to individual pref-

Six Hybrid Tea Roses for \$5.00

General MacArthur	Crimson-scarlet
Souvenir de Claudius Pernet	Pure bright yellow
Kaiserin Augusta Victoria	Pearly-white
Los Angeles	Flame-pink
Mme. Caroline Testout	Rich pink
Ophelia	Salmon-flesh
Los Angeles	Flame-pink Rich pink

The rose-bed should be comparatively narrow, not more than 3 or 4 feet wide, so that the plants may be easily cared for. The Hybrid Teas may be planted 18 inches apart, while for the Hybrid Perpetuals, Rugosas, and bush roses, more space, even up to 3 or 4 feet, may be necessary. Hardy climbers should be planted according to the desired effect. In hedges they should be no closer than 5 feet of each other.

Field-grown roses are prepared for planting by pruning back the shoots quite severely, cutting them down to one third of their former size. Any broken or mangled roots should also be trimmed clean. The planting should be done as soon as possible after the stock is received. Dig a hole ample enough to receive the roots well spread out, sift in the soil, shaking the plant gently so that it will settle below the roots. No air spaces must be allowed. Water freely and add soil until the surface is reached.

After planting and during the entire season the ground should be cultivated, and during dry periods water thoroughly and mulch with lawn clippings or straw. Remove all suckers which may appear on budded stock. These usually come separate from the main stem, and have leaves of a different color and type than the main plant.

The plants must be continually guarded against destruction by insects and fungous diseases. Dusting the foliage when it is damp with a mixture of nine parts of dusting sulphur and one part powdered arsenate of lead, will prevent mildew and blackspot, and should be done about every three weeks. If one part of tobacco dust is added, it will also serve as a check on the rose-aphis.

Ansect Rose Bug Destroyer. It is diluted for use with 30 parts water, is a very efficient and powerful liquid insecticide, which makes an effective spray for rose bugs and other minor insects infesting plants.

Price for 4-oz. trial can, 30c; pint, \$1.00; quart, \$1.75; gal., \$6.00.

To winter safely, hill up the plants with earth from 6 to 12 inches, adding a cover of any loose materials which will keep off excessive water.

Hardy Climbing or Rambler Roses

Prices are for field-grown, select stock. Delivered to express or freight office in Chicago but not prepaid. Each, 75c, 10 for \$6.50, except where noted.



White Dorothy Climbing Rose

American Pillar—A climber of vigorous habit. The enormous single flowers, sometimes measuring 3 inches across, are borne in large clusters and are produced with the greatest freedom, fairly covering the bush. Color is a delightful shade of rose pink. Broad, glossy, deep green foliage. In the fall the flowers are followed by clusters of red berries.

Aviateur Bleriot—The beautiful little golden yellow buds develop to full, double, primrose blooms with a golden center, and having a delightful magnolia-like fragrance. A vigorous grower, producing many large clusters of flowers.

Each, \$1.00

Baltimore Belle—Pale blush variegated carmine rose and white. Flowers borne in large clusters.

Blue Rambler—Flowers borne in loose clusters, of a delightful shade of violet-blue.

Climbing American Beauty—This variety retains the deep pink to crimson color and the same delightful fragrance of the bush American Beauty; grows to a height of 15 feet, perfectly hardy.

Crimson Rambler—So well known as to need little description. The foliage is rich, dark green; the growth rapid and diverse. During June and July the plant is covered with clusters of the brightest crimson flowers which remain on a long time.

Each, \$1.00

Dorothy Perkins—The most popular climbing rose of today, and as hardy as the Crimson Rambler. The flowers are borne in clusters and are very double; the petals are very prettily rolled back and crinkled. The color is a most beautiful shell pink and holds a long time without fading.

Each, 75c

Dr. W. Van Fleet—Flowers when open run four inches and over in diameter. The center is built high, petals beautifully undulated and cupped. The color is a remarkable delicate shade of flesh-pink on the outer surface, deepening to rosy-flesh in the center. Each, \$1.00

Excelsa—(Red Dorothy Perkins.) A distinct variety in form, color and habit; vigorous in growth, with healthy dark, glossy green foliage. The flowers are very double, produced in large trusses of thirty to forty, and almost every eye on a shoot produces clusters of flowers. The color is intense crimson-maroon, the tips of the petals tinged with scarlet.

Each, 75c

Flower of Fairfield—(Everblooming Crimson Rambler Rose.) Flowers bright crimson, in clusters.

Gardenia—(Hardy Marechal Niel.) Deep, rich golden yellow flowers, passing to creamy white. Blooms profusely, hardy. **Each, \$1.00**

Goldfinch—Beautiful long-pointed yellow buds which open full to medium-sized, delicately fragrant, cream-colored blooms.

Each \$1.00

Mary Wallace—Described as a pillar Rose, making a fine, strong, self-supporting plant 6 to 8 feet high, with large glossy foliage, blooming with great freedom in spring and bearing a considerable number of fine buds in summer and fall. Flowers very large, generally exceeding four inches across; well-formed, semi-double, of a bright clear rose-pink with salmon base to the petals.

Each, \$1.75

Paul's Scarlet Climber—A new and most important addition to the list of climbing roses. Its color is a vivid scarlet that is maintained until the petals drop. Flowers of medium size, semi-double, very freely produced in clusters of from three to twenty flowers each on much branched canes, the plants being literally covered with flowers from top to bottom. It is of strong climbing habit and perfectly hardy. Has been most highly recommended by the English horticultural press.

Each, \$1.00

Prairie Queen—Color, bright red, changing as the flower opens to deep pink. A splendid Rose for porches.

Silver Moon—Extra large silver white semi-double flowers with a mass of golden stamens. Each, \$1.00

Tausendschon—Soft pink changing to rosy carmine.
Flowers appear in large clusters.
The plant is of strong, vigorous growth, perfectly hardy, and a good variety to plant where a strong climber is desired. This Rose is nearly thornless.

White Dorothy—A pure white sport of the well-known Dorothy Perkins, of same habit of growth and freedom of flowering; a splendid companion for the pink variety, as it flowers at the same time. A most valuable addition to this class.

Yellow Rambler—Flowers medium size, cup-shaped, semi-double, fragrant. They are borne in large clusters.

Hardy Everblooming Hybrid-Tea Roses

They have been produced by crossing the free-flowering Tea Roses with other varieties, principally of the June-flowering or Hybrid Perpetual classes, thus combining not only the free-flowering habit of the Tea Rose with the rich and varied colors of the other classes, but also comparative hardiness, all of the varieties listed standing the winter with protection as recommended for the latitude of Chicago. For winter, hill soil about the stems to a height of 6 or 8 inches, just before frost, and then cover the entire bed with leaves or straw. A good plan is to put a temporary fence of twelve-inch chicken wire netting around the bed, filling in loosely with leaves, and with a little earth or some branches over all to prevent them from blowing away. Do not remove covering until all danger of frost is past in the spring. STRONG DORMANT PLANTS—Each, \$1.00; 10 for \$9.00 (except where noted).



Ophelia

Edward Mawley—A beautiful rich crimson, touched with maroon, with a delightful velvety gloss on the petals, which are large, forming a good-sized flower with high globular center. The growth is strong and the flowers are borne in profusion.

Duchess of Wellington. Among the few dependable yellow Hybrid Teas. The buds are long; the flowers large, well formed of few petals of intense saffron-yellow, changing to deep coppery yellow as they expand; delightfully fragrant. Robust habit, disease-resistant, and a good bloomer. fragrant. Rol good bloomer.

Gen. MacArthur—Brilliant glowing crimson-scarlet; a splendid garden Rose. Very sweet-scented.

Gruss an Teplitz—This is a rose for everybody, succeeding under the most ordinary conditions. In color it is of the richest scarlet shading to a velvety-crimson; very fragrant, a free, strong grower and in bloom all the time.

Hermosa—(China or Bengal Rose.) Pleasing shade of bright pink; fine both for pot and gar-den culture. Forget-me-not among them make a den culture. Fo

Jonkheer J. L. Mock. A dependable Rose. Very large, full, and fragrant; petals silvery, rosy white inside, outside carmine pink. A good bedding variety and a continuous bloomer. In effect, an intensified La France.

Kaiserin Augusta Victoria — This splnedid Rose should be in every collection. In color it is a soft, pearly-white, tinted with just enough lemon in the center to relieve the white; remarkably fragrant, beautifully formed flowers on long, graceful stems; a strong, free, healthy grower, with bold, handsome foliage

Rillarney—This is one of the most popular of our garden Roses, and also one of the leading varieties for winter cut flowers. It is perfectly hardy; in growth it is strong and robust, and as free-flowering as any Rose we know. In color it is a sparkling, brilliant pink; the blooms are large, the buds long and pointed, the petals very large and of great substance, and just as handsome in the full-bloom flower as in the bud form.

Auy Hillingdon—Makes exquisite buds of deep apricot-yellow, shading to orange.

Deliciously fragrant. A perfectly formed flower and free blooming. Lady Hillingdon-Makes

Los Angeles—One of the most notable new garden roses, and the first American variety to receive the grand prize at the Bagatelle Garden, Paris. Its color is a luminous flame-pink toned coral, shaded translucent gold at base of petals. An upright sturdy grower, bearing perfect fragrant flowers on strong stems. Each, \$1.25

Mme. Caroline Testout—Large, full flowers and handsome buds which resemble the famous La France Rose. Color is clear, rich, pink, finely edged with silvery rose. In great demand for mass planting.

Miss Lolita Armour—An American rose of high merit. Very large, full, fragrant blooms of chrome-yellow at base, shading to burnt orange and copper, reflex of petals chrome-yellow at base shading to bright salmon, turning to lovely shades of shrimp-pink and copper, with age. Blooms borne on long stems; shape in general much like Los Angeles. Each, \$1.25

Mrs. Aaron Ward—A most desirable and dependable variety that will probably produce more flowers than any other yellow rose. Semi-double, cup-shaped, deep Indian-yellow flowers, occasionally washed salmon-rose, and sometimes varying greatly; fragrant; blooms till frost.

Ophelia—Salmon-flesh, shaded with rose, large and of perfect shape, of excellent habit; the flowers, standing up well on long, stiff stems, are produced very freely; a flower that has been greatly admired.

Each, \$1.25

Radiance—Vigorous, upright, bushy plants bearing a continuous supply of very large, beautiful, light silvery pink to salmon-pink flowers on long, strong stems.

Red Radiance—A sport of Radiance, carrying all the good qualities of the parent and differing only in the beautiful deep red color of the large globular flowers. Fine for the garden.

Red-Letter Day—Scarlet-crimson buds that expand to semi-double cactus-like flowers. A vigorous grower with upright habit.

Souvenir de Claudius Pernet—A beautiful, pure sunflower-yellow, deeper in the center. The large pointed buds open to full, double moderately fragrant flowers. Large glossy, disease-resistant foliage; plant of vigorous, upright habit.

Each, \$1.75

Sunburst—Orange-copper and golden yellow. A mag-nificent free-blooming variety, especially handsome in bud form. Each, \$1.25

White Killarney—A pure white sport of the popular Killarney Rose, identical in every way with its parent, excepting in color which is a pure white.

SELECTED HARDY GARDEN ROSES

The plants offered herein are field grown and dormant. They can be planted as soon as frost is out of the ground. They are large and bulky, and not to be compared with small plants out of pots. From their size, we can send them only by express or freight. The purchaser pays the transportation charges.

Hardy Hybrid Perpetual Roses

STRONG DORMANT PLANTS_Each, \$1.00; 10 for \$9.00

American Beauty—Very fragrant, deep rose. In center shaded with crimson. In size, color, and form it has no equal. Wherever this rose is known, it is prized more than all others.

Anna de Diesbach—(Glory of Paris.) Most lovely brilliant carmine; long pointed buds, and large, finely-formed compact flowers, very sweet.

Frau Karl Druschki—This is the ideal hardy white rose, pure in color, perfect in form; strong grower and remarkably free-flowering; superb in every way.

General Jacqueminot—Brilliant scarlet-crimson; an old favorite and one of the best known roses in cultivation. Does well everywhere.

George Arends. Sometimes called the "Pink Druschki." A large, full, deliciously fragrant, pink rose, borne abundantly on a vigorous plant.

J. B. Clark—Intense deep scarlet, heavily shaded blackish crimson; foliage bronzy green in the young stage. Vigorous upright grower.

Magna Charta—Beautiful large dark pink flowers.
A general favorite, prized on account of its strong, upright growth and bright, healthy foliage, as well as for its magnificent bloom.

Mrs. John Laing—Soft pink, of beautiful form and of very large size; exceedingly fragrant and remarkably free flowering. One of the most beautiful of all the Hybrid Perpetual Roses.

Paul Neyron—Bright, shining pink, probably the largest and finest. Finely scented and free blooming. Very desirable as a garden Rose.

Prince Camile De Bohan—Very dark, velvety crimson, almost black; considered to be the best very dark Rose ever produced.

Persian Yellow—(Austrian Briar.) The hardy yellow Rose of olden times. Deep golden yellow, seemi-double and very hardy, suitable for planting in old-fashioned gardens and among shrubs.

Solell D'Or—(Sun of Gold.) This is a truly magnificent Rose and one of the grandest varieties in cultivation. It is a strong robust grower with stiff straight branches and heavy deep green foliage. The flowers are very large and globular, and the petals are so thick and leathery that it is remarkably durable. The color is entirely different from any other variety in cultivation, a mixture of reddish gold, orange-yellow nasturtium-red, and rosy pink, a combination very difficult to describe. Has a spicy orange fragrance.

Ulrich Brunner—Color brilliant cherry-red. This variety is a seedling of Paul Ney-ron, from which it derives its immense size.

Hardy Moss Roses

"The charm of a Moss Rose is the bud."
Large, field-grown plants, each, \$1.00

Crested Moss—The open flowers are of the most delicious fragrance. Color, a pale rosy pink, tinged crimson; large and globular. The buds are covered with beautiful moss.

Red Moss—Rose-red.

White Moss—Pure white.



Kaiserin Augusta Victoria

Baby Rambler Roses

Crimson Baby Rambler—Still a favorite. Of dwarf bushy habit. The flowers are borne in clusters of 30 to 40, and the foliage is dark, glossy and profuse. A bed in our ground was constantly in bloom even in the hottest weather.

Strong plants, each, \$1.00

Memorial Roses

Wichuraiana—Beautiful fragrant, single pure white flowers, with yellow stamens, followed in fall with bright red berries.

Strong two-year-old plants, each, \$1.00

Rugosa Roses

The Rugosa Roses are very hardy and so vigorous that they are suitable for Rose hedges or cultivated as individual shrubs. Grow 4 to 6 feet in height.

Large, field-grown plants, each, \$1.00

Sir Thomas Lipton-Double pure white.

Conrad F. Meyer—The flowers are a clear silvery rose in color; very large and fragrant; superb foliage.

Bugosa Bubra-Single rosy-carmine flowers.

HARDY CLIMBING VINES

For covering porches, verandas, terraces, walls, fences, etc., they are indispensable. All of the plants two and three years old, in strong healthy condition. Prices named after each variety include pack-Shipments will be made as desired, by express or freight; the buyer pays the transportation.

Vines, Shrubs or perishable articles are not sent C. O. D.



Clematis Paniculata

Ampelopsis Veitchii—(Japan or Boston Ivy.) Extremely rapid grower. Handsome, glossy green foliage which in fall changes to orange and scarlet. The handsomest vine possible for growth on brick or stone walls.

Medium, 75c; 2 years, each, \$1.00

Ampelopsis Engelmanni—(Engleman's Ivy.) One of the hardiest, best and quickest-growing climbers for the north and northwest. Quite similar to the Virginia creeper, but vastly superior to it, the foliage being cleaner, of greater substance, and almost perfectly free from insects. The leaves color up beautifully in the fall.

Medium, 35c; 2 year, each, 50c

Ampelopsis Quinquefolia—Common Woodbine or Virginia Creeper. A native vine sometimes called Five Fingered Ivy. A rapid grower, of sturdy growth. Its leaves are larger than those of Boston Ivy. In fall they turn to bright crimson. Medium, 30c; 2 year, each, 40c

Aristolochia Sipho—(Dutchman's Pipe.) Of rapid growth and large heart-shaped leaves; is suitable to cover arbors and for screens. Bears brownish flowers, the corolla of which resembles a miniature pipe. 2 year, each, 75c

Bignonia Radicans—(Trumpet Vine.) Useful to cover dead trees and other unsightly objects. Clings to bark or walls with tenacity. Foliage fern-like; flowers orange-scarlet, trumpet-shaped, borne in clusters.

2 year, each 50c

Celastrus Scandens—(Bittersweet.) A native climb-ing or trailing plant with large leaves; yellow flowers in May or June, followed in fall by clusters of orange-colored berries. 2 year, each 50c

Matrimony Vine—Well known, hardy, fast growing vine; handsome when covered with scarlet fruit in autumn. Commonly used as a trailer, and for a ground cover under trees and on terraces or any kind of steep slopes to hold the soil in place.

2 year, each, 50c

Clematis—Large-Flowering Varieties

No other climbing plant equals in attractiveness the beautiful large-flowering Clematis. Their requirements are somewhat different from most other plants and proper conditions must be given to secure satisfactory results. They need rich, deep soil, perfect drainage, abundance of water, and, most important of all, they should be planted with the crowns three inches beneath the surface of the soil. They seem to do best in a position where they will not be exposed to the full sun during the hottest part of the day. Hardy, but it is best to mulch them in winter.

Strong, 2-year-old plants, each, \$1.25

Henryii—(Bangholm Belle.) Strong grower, flowers four to six inches in diameter and pure white. Very hardy.

Jackmanii—This variety, with its strong, healthy growth, hardy nature and rich deep velvety-purple flowers, is the most satisfactory of its class. Blooms with profusion on shoots of the present season; should be pruned early in spring. in spring.

Clematis Paniculata

The finest small-flowered Clematis extant. A wonderfully rapid grower, quickly covering trellises, arbors, etc. The flowers are pure white, deliciously fragrant and produced with the greatest freedom. It flowers in September, when few other vines are in bloom. This is the easiest to grow and most popular of all the small flowered vines.

2 years old, each, 500

Coccinea—(Small Flowering.) Handsome bell-shaped flowers of bright-coral-red color. Blooms with great profusion from June until frost. A desirable variety. 2 year, each, 50c

Honeysuckles (Lonicera)

We cannot speak too highly of this class, for covering arbors, fences, pergolas, verandas, etc. They are the best vines for ground planting under trees and if used on terraces or embankments will prevent washing. All are perfectly hardy and improve in beauty each year.

Belgica. (Sweet Scented Monthly). One of the most satisfactory Honeysuckles, producing continuously large trusses of red and yellow fragrant flowers.

2 year, each, 85c

Hall's Japan—This is one of the finest of all vines that one can plant. It is attractive and thrives in practically all situations. Splendid on trellises, arches, porches, or for covering fences, poles and dead or ugly tree trunks. It is a strong, vigorous, almost evergreen sort, with pure white flowers, changing to yellow. Very fragrant, and covered with flowers from July to October; holds its leaves till January. The best bloomer of all.

2 year, each, 50c

Scarlet Trumpet—Bright red trumpet-shaped flowers. Blooms very freely the entire season. 2 year, each, 50c

Wistarias

One of the best hardy climbers. When given a sunny situation and liberal manuring grows rapidly, and presents when is bloom a magnificent appearance.

Sinensis—The favorite variety, producing thousands of pendulous clusters of delicate violet-blue blossoms, richly perfumed. 2 year, each, 65c

Alba—Of similar habit to Sinensis, with pure white flowers. 2 year, each \$1.00

Flowering and Ornamental Shrubs

Shrubs are not particular as to location; once planted they are there to remain. The time of bloom of the different varieties extends over nearly the whole season, though the greatest show is to be expected in spring and early summer. The variegated and golden-leaved sorts, together with those which bear ornamental fruit, make a greatly varied display. Our list includes the best, well-tried kinds, and affords a good selection to choose from.

Shrub orders amounting to \$5.00 or more include prepaid delivery within the limits of Chicago by express or freight. All others are shipped at the buyer's expense of transportation. Be sure to tell us how to ship. No C. O. D. shipments of shrubs or perishable articles.

Almond, Flowering. A bushy shrub, rarely over five feet tall; bearing rose and blush colored double flowers in early spring. Hardy; very attractive.

White, 2 to 3 ft., each, \$1.00; Pink, 2 to 3 ft., each, \$1.25; 3 to 4 ft., each \$1.50.

Althea. (Rose of Sharon). An attractive hardy shrub, desirable on account of its large, showy blossoms, which appear in August and September. Excellent for a flowering hedge or to grow singly. We have double red, white, purple and rose. 3 to 4 ft., Each, 75c

Tree Form. Double red, white, pink, rose. 3 to 4 ft., 90c

Barberry Thunbergii (Japan Barberry), One of the best lawn and border shrubs. Compact, low-growing, especially suitable for a hedge or as a border along walks and drives. Foliage a fine brilliant green in summer, turning a deep, autumnal red in fall. Yellow flowers in April to May, then followed by bright scarlet berries in profusion, which remain fresh until the following spring.

15 to 18 inch, each 40c; 10, \$3.50; 100, \$30.00 18 to 24 inch, each, 50c; 10, \$4.50; 100, \$35.00 2 to 3 foot, each, 60c; 10, \$5.50; 100, \$50.00

Calycanthus. (Carolina Allspice, or Sweet-scented shrub). Handsome plant, growing about 6 feet tall, with large, glossy foliage and spicily fragrant chocolate-red flowers about 2 inches across. Succeeds well in shady or sunny location. 2 to 3 ft., each, \$1.00

Clethra Alnifolia (Sweet Pepper Bush). Valuable for its fragrant, erect panicles of creamy-white flowers from July to September. 18 to 24 inch, each, 75c

Crab, Bechtel's Double-Flowering. Of medium growth, with beautiful pink flowers of immense size, suggesting fragrant double-pink roses. 3 to 4 ft. Each, \$2.25



Deutzia



BARBERRY THUNBERGII

Cornus. Hardy shrubs with handsome foliage often assuming a brilliant fall coloring and with attractive flowers and fruits. They grow nearly as well in shady places under large trees as in sunny, exposed positions, and thrive in almost any soil. One of our best shrubs.

Siberica. (Siberian Dogwood). Rapid growing attaining 6 to 10 feet in height. Clusters of small white flowers appear in May and June. Its chief attraction is the bright-red bark in winter.

3 to 4 ft., each, 50c

Stolonifera Lutea. Grows 8 to 10 feet high. Has dark blood-red branches. The flowers, which appear in May and June are greenish-white in flattopped clusters, followed by bunches of black berries.

3 to 4 ft., each, 60c

Cydonia Japonica (Japan Quince). This ranks among the choicest of flowering shrubs. Bears pruning into any desired form. As a specimen shrub it is very attractive; also fine for borders or groups. The large, brilliant brightred flowers appear early in spring, before the leaves and every branch is covered with bright, glossy green foliage all summer. Splendid hedge plant.

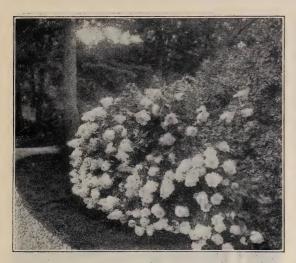
2 to 3 ft., each, 90c

Deutzias. Very ornamental and popular shrubs with showy white or blush flowers appearing in tassel-like clusters in spring or early summer. Slender, arching branches. They thrive in almost any well-drained soil and are well adapted to borders and shrubberies. D. Lemoinei is the hardiest, while D. Gracilis and Pride of Rochester require little protection.

Lemoinei. Spreading shrub, 3 feet high. Pure white flowers in broad clusters. More vigorous, hardier, and with more showy flowers than Gracilis.

Pride of Roohester. (D. Crenata). Grows to 6 feet. Blooms in May in advance of the others. With very large double white flower. 2 to 3 ft., each, 50c; 3 to 4 ft., each, 65c

Gracilis. Low growing; 3 feet high with slender arching branches; bright green leaves; snow-white flowers in May and June. 18 to 24 inches. 18 to 24 inch, each, \$1.00



Hydranga Paniculata Grandiflora

Elder (Sambucus). Admired for their beautiful leaves as well as flowers and fruit. They bloom in June. Require vigorous pruning to keep

Golden Elder. Yellow leaves. 3 to 4 ft., each, \$1.00

Red Berried. A new shrub with attractive snow-white flowers in June followed by large clusters of red berries. Attracts birds. 2 to 3 ft., each, \$1.00

Exochordia Grandiflora. (The Pearl) sochordia Grandiflora. (The Pearl). A well-known garden shrub growing 6 to 8 feet in height. Its chief value is on account of its dazzling display of white flowers in early spring. Thrives in any soil.

2 to 3 ft., each, \$1.00

Forsythia. (Golden Bell). One of the showiest early flowering shrubs with brilliant yellow flowers borne in profusion along the slender branches before the leaves appear. Grows 8 to 10 feet tall in good soil; hardy; excellent for planting in borders.

Fortunei. A spreading bush with upright branches and dark shiny foliage. Deep yellow flowers.

2 to 3 ft., each 45c; 3 to 4 ft., 60c

Intermedia. Slender, arching branches. Dark green lustrous leaves. Very profuse and early bloomer. lustrous leaves.

Suspensa (Weeping Golden Bell). Long, willowy branches covered with trumpet-shaped yellow flowers appearing before the leaves. Excellent for edges of groups as the branches drop over to the greensward.

3 to 4 ft., 75c

Honeysuckles. For real home vines to be near you, climbing over your windows and doorways, there is nothing prettier than sweet-scented Honeysuckles. The foliage is pretty, neat, and clean; the flowers almost continuous and their fragrance delicious. The climbing Honeysuckles are offered on page 101.

Bush Honeysuckle. (Lonicera). These shrubs of upright habit with their fragrant flowers and red berries are very decorative. Loniceras thrive in almost any good garden soil, preferring sunny locations. Pruning may be done during the winter. An attractive shrub for planting in the border or as a hedge.

Tartarica. A popular variety growing 8 to 10 feet tall. Produces an abundance of fragrant pink blossoms in May and June, followed by red berries in the late Summer and Fall.

3 to 4 ft., each, 65c

Morrowii (Japanese Bush Honeysuckle). Grows only 4 to 6 feet tall with wide-spreading branc'es. Vigorous grower, bearing snow-white flowers in May and June, followed by bright red fruits which are very decorative from August until late Fall.

Hydrangea. One of the best and most reliable shrubs giving a great abundance of showy white flowers in Autumn when blossoms are few. Hardy; grows well in any rich moist soil. To secure large clusters of blossoms prune back, in the Fall or early Spring, the branches of the previous year to 1 to 3 pairs of buds, depending upon the quantity of blossoms desired.

Arborescens (Snowball Hydrangea). The snow-white blooms are much like the Snowball flowers, but larger and more attractive. The habit of the plant is excellent, the foliage finely finished. One of the most valuable characteristics is its coming into bloom just after the passing of all the early Spring Shrubs, while its long flowering season from early June until late in Autumn makes it a valuable acquisition in any garden.

3 ft., each, \$1.25

quisition in any garden.

3 ft., each, \$1.25

Paniculata Grandiflora. The most popular and widely planted shrub in cultivation. Adapted to any part of the country, perfectly hardy, stands heat and cold remarkably well. For the cemetery there is no better shrub. Grows 8 to 10 feet high; blooms from August until frost. The flower panicles are frequently nearly a foot in length, white when they first open, afterwards changing to rose, remaining in good condition for weeks. This shrub should be planted in masses or with background of other shrubbery. Can also be supplied pruned into tree form.

2 to 3 ft., each, \$1.00, 10 for \$9.00
3 ft. and up, each, \$1.25

Paniculata (Tree Form). The plants we offer are trained to a straight stem, having a bushy top. Grown in this way, they make handsome specimen plants on the lawn. In two-sizes.

4 to 5 ft., each, \$2.25

Privet

Ligustrum (Privet). They are very valuable for shrubberies, with their clean, dark green foliage, which is rarely attacked by insects and keeps its green color mostly unchanged until late Fall, excepting L. Ibota, which turns a purplish hue. The privets are all well adapted for planting as ornamental hedges and do well in the dust and smoke of the city. Hardy, growing well in almost any kind of soil.

Amureuse (Amoor River Privet). The Chinese variety, growing upright to a height of 15 feet. Hardier than the other varieties. Dark green leaves which remain on most of the Winter. Bears panicles of white flowers in June and July, followed by black berries. The best for hedge planting, and most desirable for this section. 12 to 18 inch, 10, \$1.25; 100, \$10.00; 18 to 24 inch, 10, \$2.00; 100, \$15.00; 2 to 3 feet, each, 40c; 10, \$3.00; 100, \$25.00; 3 to 4 ft., each, 50c; 10 for \$4.00; 100, \$30.00.

180 ta. A graceful border shrub growing about 10 feet with spreading and curving branches, numerous small white panicles of blossoms appearing in June.

18 to 24 inch, each, 30c; 10, \$2.00; 100, \$15.00 2 to 3 feet, each, 40c; 10, \$3.00; 100, \$25.00

Lilacs

Lilacs (Syringa). Lilacs stand more neglect, heat or drouth without showing any bad effects than any other plant, and there is hardly any other shrub that can take their place as ornamental plants for borders, etc. They bloom in early Spring.

Vulgaris (Common). A tail growing shrub (8 to 15 feet) having large clusters of fragrant purple flowers in the Spring.

2 to 3 feet, each, 75c; 3 to 4 feet, each, 90c

Vulgaris Alba (Common White Lilac). Similar to purple variety. 2 to 3 feet, each, 90c; 3 to 4 feet, \$1.25

Persica (Persian Lilac). Habit more open and branches more slender and drooping than the Common Lilac. Flowers light purple. Grows 6 to 10 feet.

2 to 3 feet, each 90e; 3 to 4 feet, each, \$1.25

Charles X. Magnificent clusters of single, rosy-purple flowers. 2 to 3 feet, each, \$1.75

M. C. Perier. Double white, tree form. 3 to 4 ft., each, \$2.25

President Grevy. Magnificent panicles of large double blue flowers, tree form.

3 to 4 ft., each, \$2.25

Philadelphus (Mock Orange; Syringa). These shrubs are usually tall, vigorous growers and are also remarkable for their abundance of very fragrant white flowers which are excellent for cutting. They thrive well in almost any well-drained soil and even under trees. If pruning is necessary, it should be done after flowering since the flowers appear on the wood formed the previous year. Cut out the branches which are 3 or 4 years old and allow the young shoots to grow. This will result in cleaner bushes and finer flowers. Valuable for planting as backgrounds and screens.

Coronarius (Garland Syringa). One of the best and earliest. Bearing immense clusters of purewhite fragrant flowers in May. Grows 6 to 12 feet. 2 to 3 ft., Each, 45c; 3 to 4 ft., Each, 60c

Aureus. Medium in height. Foliage golden yellow. 18 to 24 inch, Each, \$1.00

Grandiflorus (Large-flowered Syringa.) A very vigorous upright grower, attaining at times a heightof 20 feet. Slender branches with an abundance of pure white, slightly fragrant flowers in June.

Prunus. Triloba (Double Flowering Plum.) A vigorous, low growing, hardy shrub upon the slender branches of which appear in advance of the leaves, many double pink blossoms. 3 to 4 ft., Each, \$1.25

Rhus (Sumac). The Sumacs are mostly very hardy and good ornamental plants. Their rich fernlike leaves give a peculiar and somewhat tropical suggestion to a planting. The rich bright colors of the Sumacs in the fall make them very attractive. The best display is secured if the old wood is constantly cut out and the vigorous shoots depended upon.

Copalina (Black or Shining Sumac). A shrub or small tree at times growing to a height of 20 feet, with shiny dark green leaves which turn a rich crimson in the fall. 2 to 3 ft., Each, 75c

Glabra laciniata (Cut-leaved). One of the best species for mass or other planting on account of its deeply cut, beautiful fern-like leaves, which are dark green above and white beneath, crimson fruits and rich autumnal coloring.

2 to 2½ ft., Each, \$1.00

Typhinia laciniata (Staghorn Sumac). The branches are densely covered with velvety hairy-like growth resembling the developing Elks Horn. Grows to a height of 30 ft. Deeply serrated leaves whose deep crimson color and persistent crimson fruit makes it an attractive tree.

3 to 4 ft., Each, 75c

Rhamnus Catharticus (Buckthorn). A large shrub, 6 to 10 feet high. Excellent for hedges. Has dark foliage with attractive white flowers in June and July. 2 to 3 ft., Each, 40c



Spirea Van Houttei (Bridal Wreath)



Spirea-Anthony Waterer

Rhodotyphus Kerroides (White Kerria). An interesting Japanese shrub growing 3 to 6 feet high, good foliage and single white flowers from late in May on, with attractive shiny black seeds in Fall. 2 to 3 ft., \$1.00

Ribes (Missouri Golden Currant). Grows to a height of from 4 to 7 feet. Flowers fragrant and useful for cut-flowers. Cultivated for its many pretty, spicy, sweet-scented, bright yellow flowers in May, and its clean, attractive foliage and bright autumnal tints.

3 to 4 ft., Each 75c

Spireas

Spirea. An ancient Greek name for a plant used for garlands. Spireas are all medium sized or low shrubs and well adapted for borders of shrubberies or shrubs. They offer a great variety both in flowers and foliage. They are all of easy culture and rapid growth, and amply repay the grower in an abundance of beautiful flowers. Will grow in almost any moderately moist soil. As single specimens or in groups on the lawn they are unsurpassed. Spireas flower in the following order from the middle of May to the middle of August:

Arguta and Thunbergii.
 Van Houttei.
 Opulifolia and Aurea.
 Billardii.
 Anthony Waterer.

Van Houttel (Bridal Wreath). This is the most satisfactory shrub in cultivation. It is the best variety of Spireas. The bush is round and graceful with long, thin, arching branches. The white flowers are in clusters, and are so numerous that when in full bloom the bush resembles a snow drift.

2 to 3 ft., each, 50c; 3 to 4 ft., each, 60c Clumps, 4 to 5 ft., each, 90c

Anthony Waterer. A very low-growing shrub with deep rose-colored blooms all through the latter of the Summer 18-24 inch, Each, 75c 2-2½ ft., Each, 90c

Billardii. Strong growing plant, blooming for July and August. Grows to a height of 3 to 4 feet. We have the pink-flowered variety.

3 to 4 ft., each, 60c

Opulifolia (Ninebark). A strong-growing shrub with white flowers along the stems in June. Grows to a height of 4 to 5 feet. 3 to 4 ft., Each, 60c

Opulifolia Aurea (Golden Spirea). One of the best of the yellow-leaved varieties. 3 to 4 ft., Each, 60c

Thunbergii. A dwarf variety blooming in April or May. With delicate drooping yellowish-green foliage which has lovely autumnal tints. Each, 75c

Tamarix Africana. The feathery foliage is borne on gracefully arched tall, strong, branches, forming an irregular shape. The small pink flowers bloom in delicate panicles during May. 3 to 4 ft., Each, 60c



Weigelia

SYMPHORICARPUS (Waxberry). A good native shrub with attractive white berries in autumn and early winter. They are very

useful plants for covering the ground under trees, for massing in the edges of beds or borders, or for detached groups where something low is desired. They will thrive in almost any soil. On account of their tendency to retain their fruit late into the winter, they are very pleasing in the winter landscape.

Racemosus (White Snowberry). A medium shrub of bushy form with pink flowers in July, followed by white waxy berries in the autumn and early

2 to 3 ft., 60c; 3 to 4 ft., 75c

Vulgaris (Indian Currant). A low-growing, spreading shrub of graceful habit and attractive foliage. Noted for its beautiful clusters of red berries, which are persistent into the winter. 3 to 4 ft., 600

viburnum. A superb, much admired group of shrubs bearing, in June, great clusters of white flowers in the form of a snowball. They are perfectly hardy, grow quickly and are remarkably free from attacks of insects.

Dentatum (Arrow-wood). A shrub of medium size with glossy leaves, white flowers in June, fine steel-blue berries in the fall.

3 to 4 ft., Each, 90c

Lantana (Way-faring Tree). Medium sized bushy shrub with large foliage. Noted on account of its silvery underlining. Flowers in May or June with ornamental red fruits, later turning black in the fall.

2 to 3 ft., Each, \$1.00

Opulus (Highbush Cranberry). A tall-growing shrub. One of the best for general planting. Leaves are broad and elegant. Flowers are pure white in clusters, followed by bright scarlet berries in the fall which in winter are very attractive to the eye.

Each, 2 to 3 ft., \$1.00

Opulus Sterilis (Common Snowball). Shrub growing to a height of 8 to 10 feet, which is covered with globular clusters of snowy white flowers in May. Very attractive. 2 to 3 feet, \$1.00

WEIGELIA

(Diervilla). Beautiful shrubs that bloom in May, June and July. The flowers are produced in so great profusion as almost entirely to hide the foliage. They are very desirable for the border or for grouping, and as specimen plants for the lawn. We strongly recommend them as good shrubs to set out. One of ten most popular shrubs.

Candida. A shrub of vigorous and fine habit, with long, tubular white flowers produced from June all through the summer. 3 to 4 ft., Each, \$1.00

Rosea. A reliable and fine variety with rose colored flowers. Shrub growing to a height of 4 to 6 feet. Flowers in June.

3 to 4 ft., Each, 90c

Variegata. Dwarf habit with clearly defined silvery variegated leaves. Flowers nearly white.

3 to 4 ft., \$1.00

Eva Rathke. One of the best of the Weigelias. Plant of vigorous habit, blooming freely and having large, well-shaped crimson blossoms.

3 to 4 ft., Each, \$1.25

Ornamental Trees

Alianthus (Tree of Heaven). A rapidly growing tree which does well in poor soils, particularly sand. It is free from insect enemies, but has a bright, fresh foliage which remains green throughout the late summer, when many trees become ragged and unsightly. The matured leaf is often three feet long, with many pairs of leaflets and a terminal leaflet.

8 to 10 ft., \$2.75

Catalpa Bungei. Curious, umbrella-shaped tree, desirable where formal effects are desired. Foliage large and glossy. Dwarf habit. Flourishes in most any soils and climates.

4 ft., 2-yr.-old, Each, \$2.50 5 ft., 2-yr.-old, Each, 3.00

Catalpa Speciosa (Western Catalpa). A hardy tree with broad, heart-shaped foliage. Blooms in June, bearing handsome clusters of white flowers. It is particularly suitable for streets when planted thirty feet apart.

6 to 8 ft., Each, \$1.00

Elm (American White). The favorite tree for street planting or for shade about the home. Graceful in habit, with a straight trunk and spreading head. Leaves and twigs are delicate.

8 to 10 ft., Each, \$2.00

Linden. (American) or Basswood. A large tree with broad, rounded crown. Large heart-shaped dark green leaves, flowers, creamy white. Suitable for street or lawn planting. 5 to 6 ft., Each, \$2.00

Norway Maple. A large, handsome tree with spreading branches and broad, deep-green foliage; very compact growth, rendering it one of the most desirable varieties for the street, park, or lawn. Perfectly hardy. 8 to 10 ft., Each, \$5.00

Weir's Cut-Leaved Maple. A rapid growing Maple with beautiful deep cut foliage borne upon drooping branches. A handsome lawn tree. 6 to 8 ft., Each, \$2.25

White or Silver Maple. A large, spreading rapid-growing tree, with deep-ly-cut light green dense foliage. Valued for ave-nue planting. 8 to 10 ft., Each, \$2.25 nue planting.

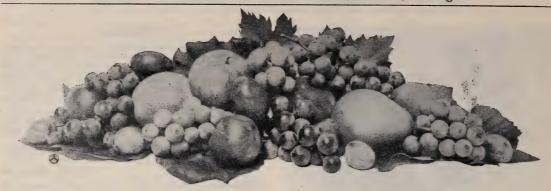
Poplar, Carolina. A very distinct tree, growing symmetrical in form, with a large spreading head. Rapid grower, being used largely for screens, hedges or street where quick results are desired.

8 to 10 ft., Each \$1.00; 1½ to 1½ in. cal. Each \$1.25

A well-known tree, remarkable for its erect, rapid and picturesque growth 8 to 10 ft., Each, \$1.50

Mulberry, Tea's Weeping. Makes a beautiful um-brella-shaped head. 1-yr.heads, Each, \$5.00

Wisconsin Weeping Willow. 6 to 8 ft., Each, \$1.00



Selected Fruit Trees

Special attention is called to our fruit trees. They are first class stock, selected especially for our retail trade, and we guarantee our stock to be in good condition when delivered to the express company or your home. Each shipment is accompanied by a certificate of inspection issued by the State Entomologist, certifying as to the freedom of our stock from San Jose scale and other injurious insects, and diseases.

APPLES

Eleven-sixteenths inch caliper, trees running about to 6 ft. in height, depending upon variety.

Each, \$1.25; 10 for \$10.00

Early Varieties

Tarly Varieties

YELLOW TRANSPARENT. Large, light yellow, medium acid, of good quality, very popular. July. EARLY HARVEST. Rather small, pale yellow, tender, medium acid. An old favorite. August. RED ASTRACHAN. Deep crimson, juicy, acid, hardy, reliable bearer. Excellent for home use. August.

MAIDEN'S BLUSH

August.

MAIDEN'S BLUSH. Large, lemon yellow with pink blush; tender, juicy, sub-acid; good cooking apple. August and September.

WEALTHY. Medium, bright red, juicy, vinous, good dessert apple. August and September.

DUCHESS OF OLDENBURG. Good size, yellow striped with red, sub-acid, good for cooking. Regular bearer, very hardy. September.

Winter Varieties

ARIME'S GOLDEN.. Large, golden yellow; juicy, aromatic, sub-acid. Fine dessert apple. October to December.

FAMEUSE (Snow Apple). Medium, deep crimson, tender, delicious, flesh snowy white, sub-acid. One of the best dessert apples. November to January.

JONATHAN. Medium, brilliant red and yellow; tender, juicy, rich. fine-grained. November to January.

BALDWIN. Large, bright.

BALDWIN. Large, bright red, crisp, juicy, sub-acid. Dessert and cooking apple. December to acid. March

ROME BEAUTY. Large, yellow striped with bright red, tender, slightly sub-acid, a dessert and cooking apple. December to February.

NORTHWESTERN GREENING. Large, green, sub-acid; long keeper and of fine grade. December to March.

MARCH. ELICIOUS. Large, brilliant dark red blended with yellow. Flesh fine-grained, crisp, juicy, highest quality dessert apple. December to March. TINESAP. Medium, dark red, flesh yellow tinged red, juicy, good dessert apple. December to March. DELICIOUS.

CRAB APPLES

Eleven-sixteenths inch caliper, 5 feet and up.

Each, \$1.25; 10 for \$10.00

YSLOP. Large, brilliant red, juicy. September

and October.

whitney. Large, yellow striped with red, crisp, mildly sub-acid, a dessert and cooking apple. August and September.

SIBERIAN YELLOW. Sour and acid, excellent for

CHERRIES

Eleven-sixteenths inch caliper, 4 feet and up.

Each, \$1.65; 10 for \$15.00

EARLY RICHMOND. Medium size, dark red, acid, juicy, one of the best sour cherries. June.

MONTMORENCY. Finely flavored, large, vigorous grower, heavy cropper. Late June.

BLACK TARTARIAN. Large, purplish-black, sweet. Late June.

WINDSOR. Large, liver-colored, fruit firm and sweet. July.

PEACHES

Eleven-sixteenths inch caliper, 5 feet and up. Each, 80c; 10 for \$7.00

CARMAN. ARMAN. Large, creamy-yellow with deep blush; flesh tender, juicy and finely-flavored. August.

CHAMPION. Large, creamy white with red cheek; sweet, rich, juicy. The best white peach. August. ELBERTA. Large, yellow with red cheek; juicy, well flavored; hardy, prolific; finest yellow free stone. September.

CRAWFORD'S EARLY. Large, yellow, sweet and of rich flavor. Early September. Freestone.
CRAWFORD'S LATE. Large, round, with deeper coloring than Crawford's Early. Excellent for

J. H. HALE. and of mu HALE. Larger than Elberta, ripens earlier, of much finer flavor. Flesh yellow, skin smooth.

HEATH CLING. Very large, skin creamy-white, faintly tinged red. Finest cling stone. Middle of September.

PEARS

Eleven-sixteenths inch caliper and up, 5 to 6 feet.

Each, \$1.75; 10 for \$15.00

(except where noted)

BARTLETT. Large, waxen yellow with red blush;
juicy, buttery, with a rich musky flavor. The
most popular summer pear. August and September.

PLEMISH BEAUTY. Large, yellow and russet.
Sweet and juicy. Dwarf. September and October.

SECKEL. Small, fusset, of highest flavor; juicy,
melting and buttery. September, October.

DUCHESS (Dwarf). Dull greenish yellow, spotted
russet, flesh white, richly flavored. October and
November.

KIEFFER. Large, rich golden yellow, flesh slightly
coarse, juicy, fine for cooking; has superior keeping qualities. September to January.

GARBER. Earlier and larger than Kieffer, of better
quality. Plant with Kieffer as a pollenizer. September and October.

PLUMS

Eleven-sixteenths inch caliper and up, 5 to 6 ft.

Each, \$1.50; 10 for \$13.50

ABUNDANCE. Lemon-yellow overspread with bright cherry, large, oblong; flesh orange-yellow, juicy and sweet. Of good quality. Abundant bearer. August. (Japanese.)

BURBANK. Very hardy. Large, oval, with reddish-purple skin, flesh yellow, juicy and good. End of August. (Japanese).

SHROPSHIRE DAMSON. Dark purple, large, very popular for preserving. October. (European.)

GERMAN PRUNE. Large, oval, purple firm flesh, separating from stone, sweet. Vigorous, productive, fine keeper. September. (European.)

YELLOW EGG. Golden yellow, covered with thick bloom, juicy, very productive. September. (European.)

LOMBARD. Medium, oval, dark red, flesh yellow, of pleasant flavor; adheres to the stone. Very productive. Late August. (European.)

WANETA. Very large, red, thin-skinned, with a sweet, delicious flavor. One of the latest hybrids.

BLACKBERRIES

For garden culture, plant, 4 feet apart in rows 5 feet apart. Pinch back canes when 4 feet high and allow three canes to hill.

Each, 20c; 10 for \$1.25; 100 for \$8.50

Early Harvest—A very early productive variety
with sweet, medium sized berries.

Eldorado—Produces enormous crops of very large
jet black fruits.

Mersereau—An enormous producer of extra sized berries, which are black.

Snyder—A hardy, well-known variety; berries of medium size, sweet and melting

CURRANTS

They succeed well in a cool, moist soil, and should be planted about 4 feet apart and well cultivated. Cherry—Fruit of the largest size; deep red; rather acid.

Each, 30; 10 for \$2.50

Fay's Prolific—The most popular red variety for home use; bears heavily.

Each. 30c; 10 for \$2.50

Perfection—Beautiful bright red berries of large size; quality rich, mild, subacid.

Each, 50c; 10 for \$4.50

White Grape—Very large, yellowish-white, sweet currant; excellent quality.

Each. 30c; 10 for \$2.50

DEWBERRY

Lucretia—One of the low-growing trailing black-berries. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family. Each, 15c; 10 for \$1.50; per 100, \$7.50

GOOSEBERRIES

Two-year-old.

Downing—Whitish green; vigorous and prolific; of splendid quality for desserts or cooking.

Each, 30c; 10 for \$2.75

Houghton-Medium pale red berries. Each, 25c; 10 for \$2.25 Red Jacket (Josselyn)—The best large variety. Each, 50c; 10 for \$4.50

GRAPES

Strong, two-year-old plants

Brighton—Large reddish berries, medium sized bunches; skin thin; best quality. An excellent early grape. Vigorous. Each 40c; 10 for \$3.50 Campbell's Early—A fine new grape. Large, compact, handsome clusters, with large, nearly round black berries; flesh firm but tender; seeds few; quality rich and sweet; strong, vigorous grower.

tender; seeds few; quality rich and sweet; strong, vigorous grower.

Catawba—Dark red when fully ripe. Bunch large, berries medium to large, skin thick, flesh somewhat pulpy, best quality for wine.

Each, 30c; 10 for \$2.50

Concord—One of the best known grapes. Large clusters of round, black berries; flesh juicy; sweet pulp; quite tender when fully ripe; September.

Each, 25c; 10 for \$2.00

Delaware—Bunches and berries small; compactly set; light red; flesh very juicy, sweet, spicy and delicious.

Each, 50c; 10 for \$4.50

Moore's Early—Clusters of medium size; berries large with blue bloom; of better quality than the Concord.

Each, 35c; 10 for \$3.00

Moore's Diamond—Bunch large, greenish white with a yellow tinge.

a yellow tinge

a yellow tinge.

Each, 40c; 10 for \$3.50

Niagara—Bunch medium; with large berry which is
slightly pulpy; tender and sweet; ripens
with Concord; probably the most valuable white
grape in cultivation.

Each, 35c; 10 for \$3.00

Worden. Splendid grape of the Concord type, but
10 days earlier and superior to it in flavor;
hardy and healthy; should be widely planted.

Each, 35c; 10 for \$3.00

LOGANBERRY

A hybrid between the Raspberry and the Blackberry. The fruit is as large as the largest Blackberry, and is produced in immense clusters. The color is a clear, dark red. It partakes of the flavor of both the Blackberry and the Raspberry—mild, pleasant, vinous flavor, delicious and peculiar to this berry alone. Seeds small, soft and few. Berries very firm, and carry well. Strong grower; enormous bearer. Fruit ripens early, just after strawberries. Not hardy north of 40th parallel without protection.

Each, 35e; 10 for \$3.00

RASPBERRIES

Plant 3 feet apart in a row and keep growing in good condition. Old wood must be cut away as soon as it has fruited to give vigor to young canes.

Each, 15c; 10 for \$1.00; 100 for \$7.50, except where noted

PURPLE AND RED CAPS

Columbian—Very large; dark red, shading to purple. Strong, robust growth; hardy. Each, 25c; 10 for \$1.50; 100 for \$10.00

King-The earliest red, good quality.

Cuthbert—Medium to large; conical; deep, crimson. One of the best varieties. deep, rich

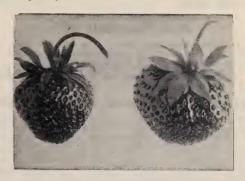
St. Regis Everbearing-Brilliant crimson; good quality.

BLACK CAPS

These Raspberries can only be planted in the spring, and the young canes should be pinched back when about 2 feet high to keep the bushes snug and compact.

Cumberland—A large glossy berry, ripening in mid-season. Of good quality, hardy and productive; among the best.

Kansas—Strong, vigorous grower, very hardy, good yielder. Berries large, jet black, firm and of the best quality.



STRAWBERRIES

Early spring is the best time for setting out. The Early spring is the best time for setting out. The plants are set 12 to 18 inches apart in rows; 2½ feet between rows. A mulch of leaves or straw is to be applied after the ground freezes in winter; the covering should be removed before growth starts in the spring. Varieties marked "P" have imperfect flowers, and to produce well must be planted close to plants having perfect flowers. Dip the plants in water as soon as received and bury the roots in moist, shady ground till you are ready to set them moist, shady ground till you are ready to set them out.

Field-grown plants, 25 for 60c; 50 for \$1.00; 100 for \$1.50.

Brandywire—Berries large; broadly heart-shaped; bright red in center; firm flesh; late.

-Medium early. Large, well-shaped berries, of a deep glossy red color; firm flesh. Dr. Burrill-

Gibson—Commences to ripen with Senator Dunlap, but owing to its great productiveness it continues quite late. Berries are extra large and the vines loaded with fruit.

-Vigorous and prolific; berries flattened; dark color; flesh light red; moderately firm, of good quality. Glen Mary-

Senator Duniap—One of the best flavored berries, fruit of good size, regular form beautiful bright red; firm, splendid keeper; one of the best for canning; ripens early.

Warfield-(P.) Early; productive; vigorous.

EVERBEARING STRAWBERRIES

They require the same treatment as other straw-berries, except that the blossoms should be removed to the middle or last of June. 25 for \$1.00; 50 for \$1.50; 100 for \$2.50

Progressive—The strongest growing of all the fall-bearing varieties. Medium to large fruits, of a dark red color.

High Grade Fertilizers

PRICES SUBJECT TO MARKET CHANGES. SPECIAL QUOTATIONS TO LARGE BUYERS OUR PRICES ON PERTILIZERS INCLUDE DELIVERY IN CHICAGO



Sheep Manure

a safe industrial water can be used.

5 lbs., 35c; 10 lbs., 65c; 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.00; 500 lbs., \$12.00; 1,000 lbs., \$22.00; ton, \$40.00.

Acid Phosphate 16%

Analysis—available phos, Acid 16 per cent, Insoluble 1 per cent. Recommended for garden use at the rate of 1 pound to 5 square feet. 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$1.75; 125 lb. bag, \$3.00; 1,000 lbs., \$18.50; per ton, \$34.00

Agricultural Gypsum or Land Plaster

The demand for this material is steadily growing, owing to its many valuable uses: As a plant food to supply needed sulphate for the home garden, lawn, and household plants; as a crop food for alfalfa, red clover and other crops of high sulphur requirements; to lighten clay soils and improve sandy soils; as a carrier of poisons to control insect pests, being particularly effective mixed with arsenate of lead, in controlling the cucumber beetle; in combination with ground rock phosphate, as a substitute for acid phosphate; for preserving the nitrogen of poultry and barn manure, also to remove the ammonia odor, and to aid in sanitation; and as a source of calcium in animal nutrition. A valuable booklet on the "How and Why of Agricultural Gypsum" will be sent on request.

25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.25; 500 lbs., \$9.00; 1,000 lbs., \$16.00; per ton, \$30.00.

Blood and Bone

A desirable fertilizer for crops, such as cabbage, cauliflower and corn, but not for root crops, such as beets, turnips, etc., unless used with some form of potash. For garden use apply at the rate of 300 to 500 pounds per acre. Most excellent for potted plants

plants.

Special package for house use, 15c; 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.50; 50 lbs., \$2.25; 100 lb. bag, \$3.75; 200 lbs., \$6.50; 500 lbs., \$15.00; 1,000 lbs., \$27.50; ton, \$52.00.

Pure Ground Bone Meal

It decomposes rapidly and is quickly effective. Approximate analysis: Ammonia, 2 per cent; phosphoric acid, 25 per cent. It is ground fine and is an excellent top dressing for lawns, grass lands, farm and field crops; also for mixing with potting soil

lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.35; 50 lbs., \$2.25; 125 lb. bag, \$4.50; 500 lbs., \$15.00; 1,000 lbs., \$26.50; per ton (2,000 lbs.), \$50.00.

BONE MEAL "ROSE GROWER" BRAND. This special brand of pulverized ground bone is excelent for rose and garden culture. Use 1 part to about 50 parts soil. Also very beneficial to lawns as a top dressing, at the rate of 1 lb, to 30 square feet.

1bs., 50c; 10 lbs., 90c; 25 lbs., \$1.50; 50 lbs., \$2.50; 125 lb. bag, \$4.75; 500 lbs., \$16.00; 1,000 lbs., \$28.50; ton, \$55.00.

Cattle Manure

CATTLE MANURE, Shredded. High quality Cattle Manure in most concentrated and effective form. Supplies carefully selected from brick-paved cattle pens only. More economical than stable manure.

Dry and free from odor. Excellent for use on the lawn, as it can be readily raked in and there is no straw to be taken off in the spring. For potting use one part fertilizer to six parts soil.

5 lbs., 35c; 10 lbs., 65c; 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.00; 500 lbs., \$12.00; 1,000 lbs., \$22.00; ton, \$40.00.

CATTLE MANURE, Pulverized. Same material as Shredded passed through grinders to further reduce it to a finely pulverized product.

10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$1.75; 100 lbs., \$2.50; 500 lbs., \$10.50; 1,000 lbs., \$19.00; ton, \$35,00.

Dried Blood

Splendid nitrogenous fertilizer for Roses, Carna-ons, "Mums," Potted Plants, etc. 5 lbs., \$1.00; 10 lbs., \$1.50; 25 lbs., \$2.50; 50 lbs., \$4.00; 100 lbs., \$7.50; 200 lbs., \$14.50; 500 lbs., \$32.50.

HARDWOOD ASHES

nleached. Mellows and sweetens hard, sour soils. Especially beneficial to lawns if used with bone Unleached.

0 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.00; 500 lbs., \$9.00; 1,000 lbs., \$17.00; ton \$32.00

HORN SHAVINGS

Used to mix with soil for vases and plant-tubs.

5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.50; 100 lbs., \$8.50.

Lawn and Garden Fertilizer (Farmer's Favorite)

A high-grade all-round fertilizer, especially adapted for lawns, field crops and market gardeners' use. Approximate analysis: Ammonia, 3 per cent; phosphoric acid, 8 per cent; potash, 4 per cent.

5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.25; 50 lbs., \$2.00; 125 lb. bag, \$4.00; 500 lbs., \$14.00; 1,000 lbs.,

\$25.00; per ton, \$47.50.

LAWN LIME OR GROUND LIMESTONE

For use on lawns to correct acidity of the soil, a condition prevalent in most residence districts. 10 lbs., 35c; 25 lbs., 65c; 50 lbs., \$1.00; 100 lb. bag, \$1.75; 500 lbs., \$6.50.

LEAP MOLD

Especially beneficial for potted ferns, etc. Per bag, about 50 lbs., \$2.00

Muriate of Potash

Contains a very high percentage of potash. Should be used liberally, particularly on root crops.

5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$1.50; 50 lbs., \$2.50; per 100 lbs., \$4.00; 200 lbs., \$7.50; 500 lbs., \$17.50.

Nitrate of Soda

A quick-acting fertilizer for rapid growing vegetables, such as lettuce and cabbage. Use as a top dressing at the rate of 100 lbs., per acre. For the home garden, apply as a solution of 1 oz. to 2 gallons of water.

1 lb., 15c; 2 lbs., 30c; 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.50; 100 lbs., \$6.25.

FERTILIZERS, Continued

Peat Moss

Granulated Peat Moss or Mull. A moisture retaining Humus, having many uses in the Garden. Renders clayey soils friable and productive; adds needed organic matter to sandy or light soils, and gravely or stony soils. On the lawn an application in the fall is desirable; and for new lawns, 1 part Granulated Peat Moss to 3 parts topsoil make an ideal base. Among shrubs and in the flower and vegetable garden it may be used with good results, stimulating the development and quickening root growth. It it an ideal mulching material for the perennial border.

Garden package (will spread 16 sq. ft. 1 in. deep), \$1.50.

Large bale (13 cu. ft., covers 240 sq. ft.), \$5.00.

PEAT, Orchid. (Fern-root.) Carefully cleaned by hand and of the finest quality.

Bag, \$3.00

Ground Rock Phosphate

A most excellent material for building up the soil, supplying the readily available phosphates which our soils seem to lack more than any other elements. Recommended for top dressings for lawns, gardens, truck gardens, and farm crops.

5 lbs., 25c; 10 lbs., 45c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50; 500 lbs., \$9.50; 1,000 lbs., \$17.50; ton, \$32.00.

Special Lawn Grower

An ideal fertilizer for the Lawn, containing in correct proportion the elements needed to maintain a vigorous growth, constantly improving texture and beauty. Contains a far greater amount (5-8-7) of plant food than the general run of fertilizers.

25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.25; 500 lbs., \$16.00; 1,000 lbs., \$30.00; per ton, \$55.00.

Arcadian Sulphate of Ammonia



A concentrated nitrogenous fertilizer, containing ammonia in a quickly available form, desirable as a top dressing for plants in which a large leaf development or rapid growth is desirable. Guaranteed 24½ per cent ammonia, free of weed seeds, odorless, entirely soluble. Write for pamphlets describing its use in the orchard, on farm crops, for the lawn or golf course. One 2-lb. package of Arcadian Sulphate of Ammonia contains as much nitrogen as 100 lbs of stable manure.

Per 2-lb. pkg., 35c; 5-lb.

Per 2-lb. pkg., 35c; 5-lb. bag, 75c; 10-lb. bag, \$1.25; 25-lb. bag, \$2.00; 50-lb. bag, \$3.50; 100-lb. bag, \$6.00.

VIGORO Specially prepared plans food

A plant food especially prepared to furnish to grass, trees, shrubbery and flowers the elements necessary for maximum growth and beauty. It is highly concentrated, so care should be taken to apply evenly, Immediately after application is made, wet down thoroughly, taking care to wash off any Vigoro which may cling to leaf or stem. Full instructions and valuable garden information are contained in "The Home Beautiful" booklet which accompanies each bag.

25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$5.00.

House Plant Foods

PLANT MARVEL ACTS LIKE MAGIC ON ALL PLANTS

A pure, rich, high-analysis, quick-acting and most economical plant food for house plants. Entirely soluble in water, easy to use. A very instructive pamphlet, "Beautiful House Plants — How to Grow Them", supplied with each can. Per ½ 1b. can, 60c.

STIM-U-PLANT

Is a high analysis plant food in tablet form for potted plants. Use directly in the soil at the base of the plants, or dissolve in water and apply to the soil. Do not spray on the foliage.

Trial size, 10 tablets, 15c; small size, 30 tablets, 25c; medium size, 100 tablets, 75c.

Zenke's New Plant Life

A liquid plant food, tonic and fertilizer containing in concentrated form all of the elements of plant food in proper proportion for absorption by the plant. Add one teaspoonful to each quart of water, and apply every other day.

8 oz. can, 30c



Milady's House Plants (F. E. Palmer, Paper, \$1.10; Cloth, \$1.35.

There are still many women who grow House Plants, and grow them beautifully. For those who long to do likewise, Mr. Palmer has written a book which will help almost anyone to have a few "green things growin" in the house. His chapter on "Sun Parlors as Plant Rooms" is most suggestive.



"Nitragin", the Original Soil Inoculator. A reliable pure culture legume inoculator that acts on the legume roots, drawing nitrogen from the air and converting it into plant food. Separate cultures are provided for Alfalfa, Clover, Vetch, Peas, Beans, and Soy Beans, therefore in ordering be sure to state which crop you wish to inoculate. For all crops except Soy Beans, the price is as follows:

					seed,	\$4.85	postpaid
1-bu.	size,	for	60	lbs.	seed,	1.10	postpaid
½-bu.	size,	for	30	lbs.	seed,	.65	postpaid
¼-bu.	size,	for	15	lbs.	seed,	.45	postpaid

Garden Size, for Peas, Sweet Peas, Beans and Lima beans, 25c postpaid.

Nitragin for Soy Beans and Cow Peas at following reduced prices:

5-bushel	\$2.60	postpaid
1-bushel		postpaid
½-bushel		postpaid

Insecticides and Fungicides

Liquid insecticides and poisons are not permitted in the mails. Dry powder and soap—non-poisonous—can be forwarded by parcel post, purchaser to remit us the amount of postage required in addition to the prices herein named. See postal rates, second page of cover.

Prices on Insecticides and Fungicides Are Subject to Change Without Notice.



ANSECT Rose Bug Destroyer is an exceedingly efficient and powerful contact insectiand powerful contact insecticide, designed primarily for the Rose Bug, but also effective against Red Spider, Aster Beetle, Leaf Hopper, Mealy Bug, most Aphis, and other garden pests. Use as a spray, diluted in the proportion of 1 to 30. (For a quart sprayer use 5 teaspoonfuls Ansect.) Spray as a fine mist, covering both upper foliage. Saturating the soil

and lower side of the foliage. Saturating the soil around the plants with a 1-to-100 solution will kill any larvae which may be in the soil. 4-oz. can, 30c; pint, \$1.00; quart, \$1.75; gallon, \$6.00.

phine—Effective against all soft-bodied and plant-sucking insects. such as green, black, white fly; red spider, thrips, mealy bug, brown and white scale, currant and cabbage worm, etc. May be used as a spray or wash, indoors or in the garden on flowers, fruits and vegetables. Pint, 65c; qt., \$1.00; gal., \$3.00

Arsenate of Lead, Powder—Kills leaf-cutting insects.

This material is especially recommended on account of its adhesiveness to the foliage. It can be used with a powder gun or mixed with water and used as a liquid spray. 1/2 lb., 30c; 1 lb., 50c; 4 lb. pkg., \$1.75; 5 lb. pkg., \$2.00; 25 lb. pkg., \$7.50.



Black Leaf 40—A solution of nicotine sulphate especially adapted for outdoor spraying against aphis and soft-bodied sucking insects.

Ounce bottle, each, 35c; not mailable; ½ lb. can (makes 40 to 100 gallons), each, \$1.25; 2 lb. can, \$3.50; 10 lb. can, \$13.50.

Bordeaux Mixture, Pulp Form—A fungicide for cur-ing and preventing black rot, mildew, blight, leaf curl, scab, or other fungoid diseases on fruits and plants; ready for use by simply adding water.

Pt., 40c; qt., 75c; gal., \$2.00

Bordeaux Mixture, Powder-For curing such diseases as black-rot, mil-scab, rust, etc., on both fruits and plants. 1 lb., 35c; 5 lb. carton, \$1.50; 25 lbs., \$5.25

Bug Death—Is a non-poisonous powder. It can be used dry just as it comes in package, or mixed in water and sprayed upon cucumber, melon mixed in water can and squash vines, etc.

In packages containing 1 lb., 20c

Carbon Disulphide—Most effective chemical for driv-ing away ants and cut-worms. Per lb., 50c

Coppercarb-A copper carbonate powder for dusting seed wheat to prevent Smut, far more convenient and economical than the wet method. Per 5-1b. pkg., \$1.00

CYANOGAS (CALCIUM CYANIDE) Grade "G"—
A new and valuable insecticide for the destruction of Aphis, White Fly, Soft Scale, Thrips, etc., in the greenhouse. Calcium Cyanide when exposed to the air gives off hydrocyanic acid gas for a long period of time, which makes it a safe and effective material for overnight fumigation. Leaves no disagreeable odor, discoloration or residue on plants. Easy to use and economical. Full directions accompany tions accompany.

CYANOGAS (CALCIUM CYANIDE) Grade "G"—
Is also effective in combating ants in the garden and on the golf course. Simply make a small hole in the nest and put in a pinch of the Cyanogas, covering over the opening with soil.

1 lb., 60c; 5-lb. tin, \$2.50; 25-lb. tin, \$8.50

Fish Oil Soap-Formerly called Whale Oil Soap. A very effective, simple and cheap preparation for the preserving of trees, shrubs, plants, vines, rose bushes, and garden plants in general, from the ravages of sucking insects.

1/2 lb., 20c; lb., 35c; 2 lbs., 60c; 5-lb. pkg., \$1.35

FLOWERS OF SULPHUR-A fungicide for checking mildew. 1 lb., 15c

FUNGINE-Effective remedy for Mildew, Rust, and other fungous diseases, in the garden or Gallon, \$3.00 greenhouse.

GRAPE DUST-A fungicide. Readily diffusable light-weight powder. Very efficient in preventing blight and destroying mildew.

1-lb. carton, 30c; 5 lbs., 95c

Hellebore, Powder-Kills leaf-eating insects, such as currant worms, cut-worms, rose bug, etc. Can be used dry or mixed with water. One oz. to 2 gals. of water.

1/4 1b., 20c; 1/2 1b., 35c; 1b., 55c

INSECTONOS-A contact insecticide for the destruction of white fly, rose leaf roller, and chrysanthemum leaf-tyer.

1 lb., \$2.25; case of 8 lbs., \$18.00, postpaid

Kerosene Emulsion-Will destroy sucking insects, such as scale, plant and bark lice, pea louse, etc. One of the best and most convenient insecticides to use on flowering plants and shrubbery. Dilute 1 pint to 30 to 50 for tender plants, and 1 pint to 20 to 30 for fruits and vegetables. Qt., 60c; gal., \$1.50

LEMON OIL-Effective in destroying Lice, Scale, Mealy Bug, Spider, Thrip, Black and Green Fly, Mites, Ants, Aphis, Rust, Mildew, etc. Especially adapted for use in the greenhouse on Roses, Carnations, and Chrysanthemums, and for the washing of Ferns, Palms, and Rubber Plants. Odorless and non-poisonous

Pt., 60c; qt., \$1.00; gal., \$3.00

Lime-Sulphur, Powder Form-All that is needed is ime-Sulphur, Powder Form—All that is needed is
the addition of water
to make spraying material. It is used for the
control of San Jose scale, oyster shell bark louse,
and other scale insects, apple scab, peach leaf curl
and other fungus diseases—pear psylla leaf blister mite, aphis and red spider. It is put up in
powder form and will keep indefinitely if kept dry.
Lb., 35c; 5-lb. pkg., \$1.35; 10-lb. pkg., \$2.25; 25 lbs.,
\$4.50. \$4.50.

Lime-Sulphur, Solution—For San Jose scale. One gallon makes ten, Also for summer sprays, as it is an excellent fungicide. When used in summer dilute with 30 to 40 parts Qt., 50c; ½ gal., 75c; 1 gal., \$1.00; 5 gals., \$4.00

Melrosine-A highly concentrated insecticide, liquid which, diluted for use with from 20 to 25 parts water, effectively destroys rosebugs as well as minor insects and diseases that afflict the rose and other plants.

Trial size, 50c; Pint, \$1.00; Qt., \$1.75; Gal., \$6.00.



Insecticides and Fungicides—(Continued)

Nicofume Liquid. For spraying or fumigating. ½ oz. will fumigate 2,000 cubic feet. For spraying, use one to two teaspoonfuls to a gallon of water.

¹/₄ 1b., 75c; 1b., \$2.25; 4 1bs., \$8.00; 8 1bs., \$15.00.

Nicofume Paper. Strips of paper strongly saturated with Nicotine. These, when suspended and lighted, make one of the best and simplest methods of fumigating greenhouses. Use. 4 to 6 sheets for ordinary house, 100 feet long by 20 feet wide.

Price, air-tight cans, 24 sheets, \$1.25; 144 sheets, \$5.50; 288 sheets, \$10.00.

Nicofume Tobacco Powder. A tobacco powder impregnated with a high strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphis, Thrips, etc.

1 lb.-tin, \$1.25; 5 lb.-tin, \$4.75; 10 lb.-tin, \$8.50.

Nikoteen. A fumigating and spraying material for sucking insects.

1-oz. bottle (makes two gallons of spray), 30c; 2-oz. bottles, 50c; $\frac{1}{2}$ 1b., \$1.25; 1 lb., \$2.00.

Paris Green. It may be applied dry mixed with flour, or mixed with water and sprayed on the foliage. For potato beetles, 1 ounce to 3 gallons of water is recommended.

Per 1b., 55c.

Pyrox

Pyrox. A combined insecticide and fungicide, for all leaf-eating insects, fungous growth, blight and rot. Easily mixed in cold water. Sticks to foliage.

Per 1b., 50c; 5 1bs., \$1.75; 10 1bs., \$3.00; 25 1bs., \$6.25.



Scalecide. An oil preparation for San Jose scale.

Use 1 gal. to 15 gals. water.

Qt., 75c; gal., \$1.75; 5 gals., \$6.25; 10 gals., \$10.60.

Slug Shot. A non-poisonous powder and a very popular insecticide; it requires no further mixing or preparations, easily distributed either by duster or in water by spraying. Very effectual in destroying caterpillars, currant, gooseberry and cabbage worms, potato, melon, squash and cucumber bugs, rose slugs, rose lice, etc.

1 lb. carton, 20c; 5 lbs., 60c.



Spray-Tabs. A complete insecticide and fungicide in tablet form, for use as a general garden spray against all leaf eating or chewing insects, and to prevent plant diseases. To make a spray solution, dissolve a number of tablets in the amount of water specified in the directions.

Per package of 30 tablets, 30c

Sulfocide. Very effective as a summer spray to control fungous diseases such as mildew, rusts, scab, leaf spot, etc., in the home flower or vegetable garden and fruit orchard.

Pint, 70c; qt., \$1.00; gal., \$2.75

Sulpho-Tobacco Soap. Exterminates insects on plants and shrubs as well as on domestic animals. In cakes. Directions accompany.

3 oz., each, 15c; 8 oz., 25c

Thrip Juice. Destructive for mealy bug, scale, thrip, codling moth, canker worm, beetles, caterpillars, etc. Per pt., 75c; qt., \$1.10; gal., \$3.25.

Tobacco Dust. Remedy for aphis, thrips and beetles. Lb. carton, 15c; 5 lb. pkg., 55c

Tobacco Dust for Burning. 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.00.



Tobacco Stems. In bales. Per 100 lbs., \$2.50; 50 lbs., \$1.50; 25 lbs., \$1.00; 10 lbs., 60c

Tree Tanglefoot. For protecting trees against climbing insect pests in a simple economical and effective way. Put a band of Tree Tanglefoot, from 3 to 5 inches wide, completely around the tree. A perfect safeguard against Gypsy, Brown-Tail and Tussock Moth, Canker worms, Ants, and other creeping insects.

1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.25; 25 lb. pail,

\$11.00.

Vermine. The best soil sterilizer for greenhouse, garden or field, thoroughly rids the soil of wire worms, slugs, lice, ants, etc. Mix with 4 parts of water and soak the ground.

Qt., \$1.00; pt., 65c; 1/2 pt., 40c



PATENTED

"Atlas" Non-Poisonous Weed Killer, a highly conce entrated chemical solution, clean, odorless, stainless, non-poisonous to man and all kinds of live stock but highly destructive to plant life. One thorough application kills vegetation and has a sterilizing effect on the soil, thus retarding new growth. For use on walks, drives, tennis courts, paths, gutters, and wherever vegetation is not wanted, at the rate of 1 gallon "Atlas" Weed Killer to 20 gallons water for every 500 sq. ft. Per quart, 75c; gallon, \$2.00; 5 gallons, \$8.00.

Planet Jr. Farm and Garden Tools

Planet, Ir., means on a farm or garden tool, the world over, that it is the latest improved. lightest, strongest, most useful and economical tool of its kind.

A complete descriptive catalog of Planet, Jr., Farm and Garden Tools will be sent on request.

No. 4 PLANET, JR., HILL AND DRILL SEEDER and Single Wheel Hoe Combined



Plants all g a r d e n seeds accurately in hills or drills; hoes, c ultivates a n d plows and plows quickly and thoroughly. Popular with farm-ers and arden-rs everyeverywhere.

No. 3 PLANET, JR. HILL AND DRILL SEEDER

Particularly suitable for the market gardener's Light and easy running. Sows all vegetable seeds accurately and uniformly, either in hills or The seed flow is under instant control, rendering it economical in use. Equipped with an adjustable opening plow, coverers, and marker rod.

Price, \$17.50

No. 35 PLANET, JR., SEEDER ATTACHMENT FOR WHEEL HOES AND GARDEN PLOWS

Designed to fill the need of a small seeder to be attached to a wheel hoe, for use in kitchen garden. Will sow in a continuous row any garden seed, accurately, at a uniform depth and cover them. Can be quickly attached by a single bolt. For use with any of the Planet, Jr., single or double wheel hoes, and No. 119 Garden Plow. Price, \$6.50

No. 12 PLANET, JR., DOUBLE WHEEL HOE

Price, complete, \$10.75



No. 13 PLANET, JR., DOUBLE WHEEL HOE is the No. 12 with 6 - inch is h o e Price, o e s only.

other attachments shown with No. 12 may be added at any time.

No. 16 PLANET, JR., SINGLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW

Is light and handy, and adapted to almost every garden use. Planet, Jr., tools are used throughout the civilized world.



Light and handy; adapted to almost every garden use. Strong, easily handled; fully guaranteed. Equipment: Pair 6 in. Hoes; 3 Cultivator Teeth; Pair Rakes, Plow, Leaf Lifter. Price. \$9.00

No. 17 PLANET, JR., SINGLE WHEEL HOE. Equipment: Pair Hoes; Three Cultivator Teeth and Plow.

No. 171/2 PLANET, JR., SINGLE WHEEL HOE. Equipment: Pair 6 in. Hoes and 3 Cultivator Teeth. Price, \$6.75

No. 18 PLANET, JR., SINGLE WHEEL HOE. Equipment; Pair 6-inch Side Hoes only.

No. 19 PLANET, JR., SINGLE WHEEL HOE, CUL-TIVATOR AND PLOW. Equipment: One 2 in. Cultivator tooth; One 10 in. Sweep; One Plow; 5 Prong Cultivating Attachment. Price. \$6.00

No. 119 Planet, Jr., Garden Plow and Cultivator. Has a 24-inch steel wheel, with the same attachments as No. 19. Price, \$4.75

PLANET, JR., STAR PULVERIZER, WEEDER AND CULTIVATOR

A very useful tool in the small home or ho me or flower garden. The cut is only 7½ inches, and enables one to use the tool where plants are very close. The star discs break up the soil and the oscillating blade — which works backward or forward — pulverizes the soil, at the same time cutting off the weeds directly beneath the surface. The curved handle makes the tool easily managed. With the star cultivator it is possible to cultivate your garden right after a rain, without leaving the soil in a lumpy condition, as is eften the case with any other tool that you might use.

Price, \$3.25

One Horse Tools

No. 8 PLANET, JR., HORSE HOE & CULTIVATOR with All-Steel Wheel

Price, \$17.50

A general favorite, being completely equipped, easily operated, and strongly made to give long continued service.

No. 90 PLANET JR., 12-TOOTH HARROW, CUL-TIVATOR AND PULVERIZERS, COMPLETE \$18.00

Invaluable in strawberry and truck patches, and the market garden. Its 12 chisel-shaped teeth and pulverlzer leave the ground in fine condition.

Teeth are specially hadened, 1¼ in. wide, and can be set to slant backward as well as forward. Both depth and width are regulated by hand levers. Equipment includes steel lever wheel and pulverizer.

GARDEN TOOLS AND REQUISITES

Aprons, Rubber. Very desirable for protecting the clothes when working in the garden or sprinkling.

Each, \$2.50

Asparagus Knives. For ting Asparagus or for weeding; very handy. V-shaped edge.

Each, 45c

Baskets, Hanging. Made of red clay, for porches, etc. 10-inch, Each, \$0.75 12-inch, Each, 1.10



Rotary Hand Corn Planter

Extreme accuracy of drop due to exclusive design of seed plates and brass spring cutoff or stripper. No tools required to make adjustment. Simple, strong and durable. Can be used in either hand without changing. Planter will accurately plant desired number of kernels in every hill. Disc is set for correct number of kernels in every hill. Disc is set for correct number of kernels in every hill. Use like a walking stick.

Each, \$3.00

Each, \$3.00

Bellows. For applying insecticides, sulphur, etc.
Made of hardwood with zinc receivers.

19 in. over all, 5½ in. wide, 4-oz., cap., each.......\$2.00
21 in. over all, 6¼ in. wide, 6-oz., cap., each....... 2,75
24 in. over all, 7¼ in. wide, 8-oz., cap., each....... 3.00

Dusting Implements

Powder r. With 1-Mason Jar Lowell Duster. Wit pt. Mason reservoir, easy to operate.

Each, 85c

"Dickey" or Bug
Death Duster.
For a p p ly in g
Bug Death or
other dry dusting powder.
Each, 50c



"Jumbo" Hand Powder Gun. Holds 4 oz. Each, 50c

Leggett's Improved "Champion" Duster

Latest model hand machine, especially designed for dusting potatoes and truck crops with arsenate of lead and other dry insecticides and fungicides. Is adjustable to either one or two rows, with 8½ fan box, giving strong air blast. Equipped with four 16-inch tubes, six nozzles, and two straps. Weight. Price, \$14.50



A very practical duster of new design. It is simply constructed and works on a new principle recently discovered. The extension is of sufficient length to enable the operator to spray ordinary field crops without bending over. Uses—For spraying dust on tobacco, small garden plots, rose bushes, or in any place where dust is to be applied. It is especially adaptable for use in applying insect powders.

Duster Brown No. 2-B, pint.....\$1.00 Duster Brown No. 2-C, quart..... 1.20

Cultivators

Norcross. A very handy tool. Five-prong, 4-foot handle. Each, \$1.15; three prong, 4-foot handle, 85c. Midget, 9-inch handle, each, 45c.

Pull Easy." When the arms are spread out to full width of 18 inches the cultivator is like a rake. For narrower rows the outer ends of the arms can be closed to any width down to 7-in. 9 tooth, 4-ft. handle.

Each, \$1.25 "Pull Easy."

Dibber. Wood Handle, Steel point.

Each, 80c

Dibber. All iron

Each, 75c

Forks, Spading. Four, light, angular ferrule, each, \$1.90; heavy, angular tines, strap ferrule. tines, strap four extra-Each, \$2.15

Fork, Cultivating. A small four-tine tool, 10 inches long, including handle. Each, 30c

Garden Line. 100 ft. of the best braided hemp. Price, \$1.75

Glass Cutter and Glazing Tool.

Each, 25c

Cel-O-Glass. A high grade, low-priced substitute for glass, ideal for greenhouses, hotbed sashes, coldframes, etc. Practically indestructible, unaffected by rain, hail, snow, sun or wind. Can be bent or cut to any desired shape. Comes in rolls 3 ft. wide, in any length up to 200 linear feet. Price, 18c per square ft.; 100 ft. rolls (300 sq. ft.) 16c per sq. ft.

Rubberwear Gloves. High quality cotton work gloves, dipped in rubber, rendering them waterproof and very lasting. An ideal protection for the hands when spraying, or handling spiky roses, shrubs, etc., in nursery or garden work.

Satisfactory for general nursery or garden work. No. 303, Gauntlet. Per Pair, \$1.00

No. 302, Gauntlet. Best for tough job of spraying. Per Pair, \$1.25

Grafting Wax. $\frac{1}{4}$ lb., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 45c

Grass Hooks or Sickles. Imported Sheffield, steel riveted back. Each, \$1.50

No. 33. "Village Blacksmith" brand, a domestic duplication of the English style. Each, 85c

Hoes

Garden Hoes. First quality, high-grade, bright razor steel blade, socket handles, 6½, 7 and 7½-inch blades. Each, \$1.35; second grade, 90c

Razor steel blade, goose-neck shank, 6-inch blade. Each, 85c Boy's Hoe.

Ladies' Hoe. Same as the boys' hoe, but lighter, 5-inch blade. Each, 75c

Warren. Best garden hoe. V-shaped blade; 7-inch. Each, \$1.40

Hose and Accessories



Hose. (Barnard's Greenhouse Brand.) A select grade of molded, non-kinkable hose. Made of the finest quality rubber. It is guaranteed against defects during the season. Not to be compared with competitive molded hose: made to give daily service. We can supply any length. 4-inch, in 25-ft. lengths, coupled, \$6.50; 50-ft. lengths, \$12.00; 100-ft. lengths, \$22.50.

Hose Clamps. Brass Bulldog, strong, reliable. ½ and ¾-inch, each, 5c; doz., 50c. Galvanized, ¾-inch, each, 4c; doz., 40c.

Perfect Hose Connection. Consists of a hose conerfect Mose Connection. Consists of a hose connection which slips into a sill cock connection and is securely locked by a durable wire spring. Eliminates annoyance, and lengthens the life of the hose, as the kinking and twisting common to the old way of making connections is entirely eliminated. Price complete, 75c each; sill cock connection only, 40c each.

Hose Couplings. Brass, ½ and ¾-inch, each, 20c; "Perfect Clinching" (brass body with galvanized clamps), ½ and ¾-inch, each, 30c

Hose Menders. Iron, ½ and ¾-inch, each, 6c; doz., 60c. Wood, ¾-inch, 2 for 5c; doz., 15c. "Perfect Clinching", (brass tube, galvanized steel clamps) ½ and ¾-inch, each, 15c; doz., \$1.25. Cooper's Brass, ½ and ¾-inch, each, 10c; 4 for 35c; doz., \$1.00. 35c; doz., \$1.00.

Hose Nozzles. "Boston" a high grade all-around nozzle for garden and lawn use. Can be adjusted to throw a solid stream or a fine mist by simply turning. For ¾-inch hose. Each 75c.

Boston Rose Spray. Similar to the rose on a watering pot. For ¾-inch hose. State whether coarse or fine spray is wanted. Each, \$1.25

"Chicago" Nozzle. Covers a greater area than any other hand-watering device.

Made of aluminum, and equipped with two heavy brass plates, closely perforated for fine and coarse spray. Each, \$3.00.

Hose Washers. Rubber. 34-inch. Dozen, 10c

Hotbed Mats. Made of frost-proof burlap, cotton filled; 40x76 inches, each, \$2.50; 76x 76 inches, each, \$3.75.

Hotbed Sash. Made of cypress, 3x6 ft., for three rows of 10-inch glass, unglazed and unpainted. each, \$3.25; glazed and painted one coat,

Knives

The Knives we offer are made of the best quality, especially designed for gardeners' use.

Barnard's Florist, single bladed, brass-lined handle Each, \$1.25

Barnard's Budding, same style as above. Each, \$1.25

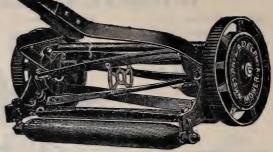
Budding or Propagating (Saynor's English). A 343, double-bladed, a very useful Florist's knife. Each, \$4.00 Each, \$4.25 No. 401, single blade, propagating.

Dandelion Knives "Village Blacksmith." Each, 45c Voos Grafting Chisel and Knife, forged in one piece, highly polished cutlery steel. Extreme length 8½". Each. \$1.25.

Labels

Pot Labels,	Wooden, painted	100	1,000
1-inch.	%-inch wide	30c	\$2.00
5-inch.	%-inch wide	35c	2.40
6-inch.	%-inch wide	45c	2.85
10-inch.	%-inch wide	1.00	7.00
12-inch,	%-inch wide	1.25	8.00
	kes, Wooden, painted.		1,000
8-inch,	%-inch wide	\$1.00	\$ 7.75
10-inch.	%-inch wide	1.25	9.50
12-inch,	1 %-inch wide	1.50	13.00
Tree Labels	. Wooden, 31/2-inch, n	otched and	copper-
wired	, Painted. 100, 40c;	1,000, \$2.55	

Philadelphia Lawn Mowers



STYLE K. Philadelphia Lawn Mower

The genuine "Philadelphia" is recognized as the standard Lawn Mower. It is guaranteed against imperfections and warranted to give entire satisfaction. We carry a large line, but list here only the more popular styles. Full descriptive and illustrated circular on request.

Style A. Width of cut 15, 17, 19 and 21 inches. Made entirely of steel. Light in weight and draft; has long and large bearings. A durable drive wheel, enabling it to cut high grass. 4 blades, double ratchet.

15 in. \$21.00 17 in. 23.50 19 in. \$26.50 21 in. 29.00

Style "Graham". A very high grade machine, all steel, 10-inch drive wheels, cylinder with four blades, removable box caps. Will give perfect results under the most severe usage. 17-inch,......\$26.00 19-inch,.....\$29.00

Style "Golf". A Special Putting Green Mower.

Cylinder with 8 blades. Driving
wheel, 10 inches. Diameter, 7½ inches. Train of 3
gears. Double ratchet. Removable box caps to take
out cylinder for sharpening.

Style K. Width of cut, 14, 16, 18 and 20 inches. This is a popular medium-priced machine. Will cut high grass; light running; does smooth and fine work, 10-inch wheels. 5 blades.

Plain Bearings 18 in. \$21.00 20 in. 23.00 14 in.....\$17.00 16 in..... 19.00 Roller Bearings 16 in.....\$21.50 18 in.....\$23.50

Philadelphia Grass Collectors. This is a substantial with galvanized iron bottom and never-tip cloth connections. Made in various sizes for Philadelphia Mowers. High-wheel: 15-in., \$3.50; 17-in., \$4.00; 19-in., \$4.75; 21-in., \$5.25. Low-wheel: 16-in., \$3.75; 18-in., \$4.50; 20-in., \$4.50.

Repair Parts for Philadelphia Lawn Mowers. We carry in stock extra parts, such as side plates, wheels, pawls, pinions, handles, etc., for the most popular of the Philadelphia Lawn Mowers, Styles A. K. M. T. Graham (B), and All Day (Z). Repairs for other style machines, including horse mowers and Lawn Trimmers, can be procured on short notice. In ordering, please mention style of machine and the letter and number stamped on the part you wish duplicated.

Pennsylvania Lawn Cleaner

The Pennsylvania Lawn Cleaner will clean your lawn thoroughly and quickly, and greatly benefit the It leaves the grass standing up straight and straightens up crab grass and other running weeds so that they will be cut close by the lawn mower and sooner destroyed. In the autumn it takes up the heaviest fall of leaves. 24-inch size, \$35.00



Berghman Lawn Mower Sharpener

A high grade durable lawn mower sharpener, easy o use, and adustable to all types and makes of achines.

Each \$1.00 machines.

DUNHAM'S WATER WEIGHT LAWN ROLLERS
To remedy the injury occasioned the lawn by the
heaving and thawing of the ground in winter, and
to keep the roots well firmed and compact during
the season, the lawn should be rolled periodically,
preferably after a rain.

Dunham's lawn rollers are made of heavy steel plates, carefully welded to form a solid one-piece container. After using, the water may be emptied, making the roller light enough to handle easily.

Nos. 2 and 4 are especially suitable for use on the smaller lawns. They are plain bearing and lighter than the larger roller bearing rollers.

	Dia.	\mathbf{L} ength		Weight	Weight	Price
No. 2 4 5 7	14 18 18 24 24	In. 24 24 24 24 24 32	Sec. 1 1 1 1 1	Empty 68 lbs. 82 lbs. 85 lbs. 110 lbs. 130 lbs.	Filled 175 lbs. 265 lbs. 265 lbs. 420 lbs. 565 lbs.	Each \$11.75 13.75 17.00 19.75 22.00

Philadelphia Lawn Trimmer. tree, or fence. Durable and serviceable.

Each. \$10.50

Planet Junior No. 2 Grass Edger



one who uses a lawn mower also needs a Planet Jr. No. 2 Grass Edger to keep his lawn edges well trimmed. This tool does that work perfectly. Light to handle, made of the best material and strongly constructed. Should be a constant companion to lawn mower wherever fine lawns are desired. Price, \$1.65

Edging Knives or Turf Edgers. For trimming sod beds and along walks. Four-foot socket handle.

Each. \$1.35

Plant Bed Cloth

For covering garden frames in spring. Light weight, per yard, 25c; medium weight, per yard, 30c; heavy weight, per yard, 40c. heavy

Master Rapid Plant Setter

The only practical hand transplanter on the market for transplanting cabbage, tobacco, tomatoes, sweet potatoes, cauliflower, strawberries, peppers and all similar plants. This setter has attained a wonderful success, as it does perfect work. More than 150,000 of them have been sold in the United States.

Price, each, \$6.00

Plant Stakes

Japanese Bamboo or Cane Stakes, natural. Strong, light, durable for supporting plants. 6 ft. Doz., 65c; 100, \$2.25

Heavy Imported Bamboo Garden Stakes, smooth, ly polished, perfectly straight, of almost even diameter throughout, with no heavy knots. Will withstand all weather conditions. 8-ft., % to %-inch diameter, dozen, \$1.10; 100 \$7.50 9-ft., % to %-inch diameter, dozen, 2.25; 100 15.00

Japanese Bamboo, Dyed Green. Light and inconspicuous.

	Doz.	100		Doz.	100
11/2-ft.	\$0.15	\$0.95	3 -ft.	\$0.30	\$1.65
	.20		3½-ft.	.35	1.75
21/2-ft.	.25	1.35	4 -ft.	40	2.00
,					

Dahlia Stakes. Wooden, round, painted green, tapering.

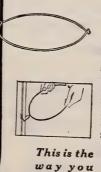
	Light		Heavy Doz. 100
	Doz.		
3 -ft.	\$1.00	\$7.50	3-ft\$1.35 \$10.00
31/2-ft.	1.25	9.25	4-ft 1.75 13.00
4 -ft.	1.50	10.50	5-ft 2.25 16.75
5 -ft.	1.90	14.00	6-ft 2.75 20.75

Square Plant Stakes. Wooden, painted green.

2-ft			5-ft.	Heavy Doz. \$1.75 2.25 2.75	16.75			
Galvanized Wire Rose Stakes.								

100 3 -ft. 3½-ft. \$1.50 5-ft.6-ft. .\$0.35 .\$0.65

"Adjusto" Plant Support



The "Adjusto" Plant Support is a marvel of simplicity. It contains no nails, hooks or screws. The stake is of hard wood, painted dark green. The hoop is of strong wire and is also painted dark green, and so will not rust. It is indispensable for Roses, Hydrangeas, Dahlias, Tomatoes — in fact, everything on the lawn or in the garden that needs support. The hoop can be raised in a "jiffy" to any height to conform to the plant's growth. 24-in... Each. 124c: doz. \$1.25. This is the way you 6-ft....Each, 45c; doz., 4.50

adjust it

Red Clay Flower Pots

We will not be responsible for breakage in transit F. O. B. cars Chicago, no charge for packing.

Standard	Pots		Bulb Pans and Azales or
Each	Doz.	100	Fern Pots
2-in		\$1,50	5, 6, 7, 8, 10 and 13
2 ½-in		2.00	inch, at same price as
3-in			Standard Pots.
4-in\$0.07	.65	3.75	Saucers
5-in10	.85	6.00	Each Doz. 100
6-in15		9,00	4-in\$0.06 \$0.60 \$3.00
7-in20		15.00	5-in07 .75 3.75
8-in30			6-in10 .90 6.00
	5.50		7-in15 1.20 7.50
12-in 1,00			8-in ,18 1.50 9.00
12-1n 1.00	11.25		
			12-in30 3.00

Neponset Paper Pots—Waterproof



Doz.	100	1,000
\$0.15	\$0.70	\$5.25
.20	.85	6.50
.25	1.15	8.25
.30	1.35	10.25
.35	2.00	15.7 5
.40	2.50	21.00
	.20 .25 .30 .35	.25 1.15 .30 1.35 .35 2.00

Pruning Compound—Used for painting the wounds of trees after pruning.

Raffia—Natural, best material for tying plants.
Small package, 10c; per 1b., 50c
5 1bs., \$2.25

Garden and Lawn Rakes

Steel Bow Rakes—Gold bronze, polished edges, 16 curved teeth. Each, \$1.50 Special Steel Garden Rakes-Solid steel head, 16 straight teeth finished in blue lacquer. Each, 75c Wire Lawn Rake—Reversible head, double-braced steel, 36 wire teeth. Each, \$1.00 Ole Olson Lawn Rake—Handle, head and teeth all made of well - seasoned, straight-grained hardwood, oil-finished, with one-piece malleable socket and brace. Straight head, with 26 teeth set close and clenched to prevent dropping out. A most desirable wood lawn rake. "Grass Gripper" Rake—A light, strong wooden rake, with replaceable teeth, Standard Model, 25-tooth. Each, \$2.00 Japanese Bamboo Broom Rakes-Made of split bamboo, with a heavy bamboo handle, fastened with a strong steel clasp. bamboo handle, fastened with a strong steet.

Cleans the lawn as thoroughly as if swept with a broom

Each, \$1.25 Pruning Saws-Double-edge, 18-inch. Each, \$1.50 Scythes, Lawn—American forged steel blade, riveted back. 30-in., \$1.65; 32-in., \$1.75 Scythe Snaths-With adjustable socket. Each, \$1.60 Scythe Stones-Best New Hampshire grit. Each, 20c Seed Sowers, "Clearing"—Handy for sowing grass seed. Sows from 4 to 6 acres per hour.

Each, \$5.00 acres per hour.

Cyclone Seed Sower—An accurate, convenient, and
economical machine for sowing broadcast all farm seeds, such as Clover, TimEach, \$2.25, prepaid

Grass Shears

For trimming around beds, walks and near buildings. No. V-51, trowel shank, hollow ground, full pol-ished all over, 6-inch blade. Each, \$1.10 No. V-52, trowel shank, made of cutlery steel, green enameled handle and bows, full polished edges. blade. Each, 65eV-1, hollow ground, full polished, 6-inch blade 6-inch blade Each, 85c

Hedge Shears

A11	lage 1	Blacksmi	th" br	and—B	est o	qualit	y.	
No.	600. 800. 900. 1000.	8-inch	blade blade					

Sickles or Grass Hooks



Imported English—Steel-riveted, back.
No. 0, \$1.50; No. 1, \$1.50 "Village Blacksmith" brand—A domestic duplication of the English style. Each, 85c No. 33

Each, \$2.15 Spades-7x12-inch blade.

Pruning Shears



Polished and Tempered Steel Blade, fastened with two Screws to Handle. End fastening Clip, Bolt has adjusting nut and regulating ratchet. Blued Steel Volute Spring.

No. R170—9-in.—Full polished and nickel-plated.

Per Pair, \$2.35

No. 50—9-inch, with adjustable nut volute spring, dead black finish, without regulating ratchet.

Per Pair, \$1.00 Per Pair, \$1.00



California Pattern

Polished and Tempered Tool Steel Blade Riveted to Head. Double Flat Brass Springs. Malleable Head and Handles, with End Fastening Clip. Bolt has adjusting nut and regulating ratchet.

No. R60 —9-inch, Dead Black Finish. Per Pair, \$1.35 No. R65 —Full Polished. Per Pair, \$1.85 No. R165—Full Polished and Nickel Plated.

Per Pair, \$2.10 Per Pair, \$1.50 Each, 15c Ladies—6-inch, nickel plated. Springs—For Pruning Shears.

Lawn Sprinklers

All Sprinklers have connections for 34-in. hose.

Elgin. An efficient rotary Sprinkler with no back pressure on the hose. Each, 30c; equipped with shield to throw the water all to one side, \$1.00; shield only, 15c.

\$1.00; shield only, 15c.

Blake Sprinkler Head.

The spray is formed by a jet of water playing upon a revolving spoon. Very efficient and durable.

Bach, 40c

Double Rotary Sprinkler. Used by more than 400 golf courses in the United States. Is just as satisfactory for the small home as large estates. Covers an area of from 15 to 80 feet in diameter, according to pressure, controlled by the turning of the faucet. Not a spray, but penetrating drops like rain, evenly distributed. Made of the best materials and will last for many years. Weight, 7 lbs.

Bach, \$12.50 Each, \$12.50

Rainbow Sled Stand

Brass Sprinkler



Rainbow Sled Stand

Covers a 40 to 50 foot area with a fine mist or full drops according to pressure used. Will not rust or leak. Lasts indefinitely. Each, \$2.00

RAINBOW MIDGET SLED STAND SPRINKLER. Same as above except that the revolving arms are shorter, cov-ers a 35 to 40 foot area. Each, \$1.65

RAINBOW STANDARD STICK STAND SPRINKLER. Thirty-six inches long. Covers an area of 40 to 50 feet. Each, \$2.25

Covers an area of 40 to 50 feet. Each, \$2.20

RAINBOW HOSE CONNECTING STAND

PIPE. Consists of a 3 ft. brass pipe on
stick with hose connection at bottom and
short pliable piece of hose at top with
connection for nozzle. Eliminates the disagreable features in watering lawns such
as holding hose, etc. May be left with
water running in any direction desired.

Each, \$1.65

SKINNER SAUCER SPRINKLER. A very efficient low priced sprinkler, scientifically designed to throw the water at low pressure; equipped with shield to regulate the direction of the spray.

Rainbow Each, 75c Stick Stand

Auto-Spray No. 1

Compressed Air Sprayer



Strong, simple Com presser Air Sprayer, equipped with a clog proof nozzle. Made with 31/2 gallon brass or galvanized tank, as ordered. The pump is locked to the tank by means of a malleable iron cam lock. very simply operated.

Uses — For spraying trees, shrubs, whitewashing or painting with cold water paint, removing wall paper, washing windows and automobiles and all purposes.

Weight packed for shipment 10 pounds. Equipped complete for spraying with 2 feet 1/4 inch by 5 ply hose, solid stream nozzle, fine spray nozzle and auto-pop.

No.	1A.	Brass tank,	with	stop-cock	39.00
No.	1B.	Brass tank,	with	auto-pop	9.50
No.	1C.	Galvanized	tank,	with stop-cock	6.00
No.	1 D .	Galvanized	tank,		6.50

Accessories for Auto-Spray

Brass Elbow. For reaching the under side of the leaves. Will fit either the shut-off or the extension. Each, 35c

Brass Extension. extensions serew into one another and connect direct to the shut-off, the nozzle being placed on fore end of the extension. Extension in sections of 2 feet. For tree work two

Auto-Spray Nozzle. Stamped brass threaded ¼ in. with screen. Each, 60c

Auto-Pop. An automatic shut-off made entirely of brass. By a pressure of the fingers on the handle the spray is turned on and by releasing this pressure the spray is automatically turned off. The Auto-Pop saves solution and reduces labor by 100%.

Auto-Pop Nozzle, with hose and attachment \$2.00 Auto-Pop Nozzle, without hose 1.50 Set of Soft Parts. The small valves and washers which wear out. Per set, 25c
We can also supply other Repair Parts for the

Auto-Spray No. 26

Auto-Spray.

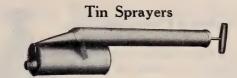


A continuous atomizer of unusual merits. The container can be detached for refilling and cleaned by simply unscrewing from the pump cylinder. The syphon tube is easily removed and quickly cleaned by removing the nozzle. **Uses.**—For spraying garden crops, for use in greenhouses, for handling disinfectants and fly oils. It can be used with all spraying solutions solutions.

Binks Universal Sprayer No. 22

Capacity 3 gallons. Galvanized steel tank, all brass pump which screws into top of tank, air cannot leak. Furnished complete with 3 ft. of discharge hose, auto-pop valve and spray nozzle.

Price, \$8.75



No. 119 Perfection. A compact single-tube 1-quart sprayer. Tank runs parallel with pump tube. Handy to use and easy to operate. Each, 50c



A complete portable spraying outfit for small orchards, field crops and general purpose farm spraying. For disinfecting the farm yard, barns, poultry houses and pen, spraying stock dip and cattle fly oil, it is indispensable. In whitewashing building and fences it reaches crevices impossible to cover with a brush. The pump is easily removed, cleaned and replaced. Equipped with 12½ feet of ½-inch hose. 8-foot steel extension with leafless stop cock and Hayes Vermorel nozzle.

No. 1721-F, complete \$23.50

Accessories for Hayes Sprayers

Jumbo Disc Nozzle. Extra large capacity, especially adapted to high pressure, throws a fog-like spray at a wide angle. Has three interchangeable steel discs.

Bach, \$1.50

Jumbo Disc Angle Nozzle. The same as the Jumbo Disc Nozzle, except for the angle connection.

Each, \$1.50

Bamboo Extension Rod, with seamless brass linings. Equipped with Leakless Stop

Cock and rubber Drip Shield. 6-foot \$4.25 8-foot 10-foot

"Success" Bucket Sprayer



For the garden, greenhouse, or small orchard, this pump is well indispensable. Working parts and cylinder are of brass. The large globeshaped enlargements at the top of cylinder permits an easy motion and a steady stream. Supplied with 3 feet of hose and a Bordeaux (the best all around) nozzle. Shipping weight, about 10 lbs. Each, \$7.50

HUNT'S NO. 1 BUCKET SPRAYER

All brass pump and 4 feet of hose, one nozzle for spraying and one nozzle for large stream of water or other liquid. This pump is suitable for spraying whitewash, disinfectants a n d insecticides on fruit trees, poultry houses, barns, etc.

"Success" Bucket Sprayer Price Bordeaux Nozzles. Hunts, 75c; Deming, \$1.25 each

Scollay's Plant Sprinkler

Rubber bulb hand sprinkler for spraying house plants. Large size, each \$1.50

Thermometers

Hotbed or Mushroom— Wood frame, pointed brass. Each, \$2.25

Long Distance. Large figures. Each, 40c

Maximum and Minimum self registering, 10-inch metal case.

Each, \$6.50
Long Distance Copper.
8-inch. Each, 85c

Tree Pruners, waters, 6-ft. handle \$1.85 8-ft. handle 2.00 10-ft. handle 2.25 12-ft. handle 2.50 Extra blades, each .25 Detroit. 6-ft. handle \$1.15



Trellises—Wood

Being non-metallic, they will not burn the plants.

Painted dark green.

Fan.Shaped Trellis Each
18-inch fan, 8 inches wide at top. \$45
24-inch fan, 10 inches wide at top. 60
3-foot fan, 16 inches wide at top. 1.25
4-foot fan, 32 inches wide at top. 1.75
5-foot fan, 32 inches wide at top. 2.25
6-foot fan, 38 inches wide at top. 2.50
7-foot fan, 42 inches wide at top. 3.00
8-foot fan, 46 inches wide at top. 3.25 Veranda Trellis \$2.50



"Little Wonder" Hedge Trimmer

Each, 35c

A neatly clipped hedge is as important a detail as a smooth lawn, in the appearance of your grounds. The "Little Wonder" is built along the most practical mechanical lines, of the best material obtainable. Light weight and easily operated.

30-inch machine (one-man) \$19.75
40-inch machine (one or two man) 25.00

Trowels



Handy Garden Trowel. Made of heavy pressed steel, all in one piece, with a round, smooth handle. Finished in baked black enamel. A high-grade durable tool. Each 25c

Similar to the Garden Trowel. Each, 25c Handy Transplanting Trowel.

Forged Steel. No. 211. Blade and shank are one-piece. 5-in., 65c; 6-in., each, 70c; 7-in., 75c; 8-in., 80c

English Pattern, No. 215. 6-inch riveted blade.

Solid Steel, No. 212. 6 inch.

Each, 25c Ladies' Trowel, No. 216. For light work. Each, 20c

Bulb, No. 216A. 6-inch Each 35c

Plant Tubs

Are made of selected Virginia white cedar with electric welded wire hoops and flat bottom hoops, all galvanized. Tubes are painted green inside and out. Nos. 11 to 14 have handles.

	Top	Bottom	Depth	Price
No.	Inside	Inside	Inside	Each
	7 in.	5 in.	7 in.	\$0.80
2 3	8 in.	6 in.	8 in.	1.00
4	9 ir.	7 in.	9 in.	1.15
5	10 in.	7½ in.	9 in.	1.25
6	11 in.	8½ in.	10 in.	1.50
7	12 in.	9 in.	11 in.	1.75
8	13 in.	10 in.	12 in.	2.00
0	14 in.	11 in.	13 in.	2.25
10	15 in.	11½ in.	14 in.	2.50
11	16 in.	12 ½ in.	15 in.	3.25
12	17 in.	13 ½ in.	16 in.	3.50
			17 in.	3.95
13	18 in.	14½ in.	1 / 111.	0.50

Watering Pots

alvanized Iron, French Style—Oval body; long spout. 2 copper roses, fine and course, especially designed for greenhouses, garden frames and flower beds. 6-qt., \$5.65; 8-qt., \$6.00; 10-qt., \$6.45 Galvanized Iron, French Style-Oval

Weeders





Excelsior ...
Weeding Fork ...
Moe's All Steel Garden Weeder... Each, 15c Each, 30c Each, 25c



Out-U-Kum Weed Puller.

Wheelbarrows

Globe Garden—A medium-sized Barrow, box, 30 inches long, 19 inches wide at wheel end, 24 inches at handle end; 12 inches deep, 20-inch steel wheel. Each, \$7.00

Window Boxes



	S	ub	ting
			-
L			rice

THE

Sa Vo PLANT Self-

A STATE OF THE PARTY OF THE PAR				Price
	Height	Width	Length	Each
Model A	8 in.	9½ in.	23 in.	\$3.00
Model B	8 in.	$9\frac{1}{2}$ in.	29 in.	4.00
Model C	8 in.	9½ in.	35 in.	4.50
Model D	8 in.	9½ in.	41 in.	5.00
Model E	8 in.	12 in.	12 in.	3.00

Barnard's Feeds and Supplies for Poultry and Pets

CONKEY'S THE ORIGINAL BUTTERMILK STARTING FEED

A Ready-Prepared feed for baby chicks and all self-feeding young fowls. Composed of buttermilk, pin-head oatmeal, a special wheat middlings, whole corn-meal, corn feed meal and granulated bone. Contains all elements needed for safely starting baby chicks, ducklings, goslings, poults, pheasants, quall, grouse, etc. Conkey's is all the chicks need the first eight weeks except greens, charcoal, grit, clean water and some scratch grains in the litter for exercise. Give grit and water from the start. During the second week add green stuff and in the fourth week finely cracked chick grains.

grains.

BUTTERMILK GROWING MASH

Second link in the Conkey Chain. Balanced for rapid second ink in the Conkey Chain. Balanced for rapid and even development of muscle, bone, vital organs and feathers. Consists of buttermilk, wheat middlings, wheat bran, corn feed meal, ground barley, hulled oats, bone, meat scraps, bean meal, and oil meal. Low in fibre, like all Conkey mashes.

SEMI-SOLID BUTTERMILK

Pure creamery buttermilk condensed to a thick semi-solid paste. Being thoroughly pasteurized, it is a per-fectly safe feed at all times. Keeps indefinitely. One gallon cans of about 7½ lbs. net, \$1.00. See Feed Price List for larger quantities.

SPRATT'S PATENT FOODS

Fibo. A most appetizing granulated food for dogs. Especially valuable for growing puppies, and for dogs that are ill or out of condition. 2 lb. carton, 40c; bulk, 5 lbs., 85c; 25 lbs., \$4.25; 100 lbs., \$16.00.

Ovals. "The Pocket Dog Biscuit". A complete food rall dogs. Very popular with the smaller breeds. lb., 9 oz. carton, 40c; bulk, 5 lbs., 80c; 25 lbs., \$3.75; for all 1 lb., 9

Puppy Cakes. The standard food for puppies. Square cakes of convenient size, just the right hardness to benefit the teeth. 1 lb., 14 oz. pkg., 40c; 4½ lb. pkg., 75c.

Dog Cakes. The perfect food for a mature dog's steady diet. Maintains the best of health and condition. 1 lb., 15 oz. pkg., 35c; 5 lb. pkg., 75c; bulk, 25 lbs., \$3.75; 100 lbs., \$14.50.

CANARY MIXTURE

Totally unlike any other mixture prepared for regular canary-feeding, Spratt's Egg. Fruit and Canary Seed Mixture offers the bird a delightful and wholesome

The quality of the European Canary Seed, sweet summer rape and other seeds forming the blend, is unsurpassed and the addition of egg-flake and fruit makes it perfect

Spratt's Canary Mixture......Pkg., 25c SPRATT'S COD LIVER OIL CAGE BIRD AND NESTLING FOOD

Spratts' Cod Liver Oil Cage Bird and Nestling Food is a perfect and efficient substitute for the old hard-boiled egg-and-biscuit preparation. Pkg., 20c.

MISCELLANEOUS BIRD SUPPLIES

Barnard's or Burnett's Bottled Song Food. Eac Burnett's or Spratt's Lice Powder. Each, 25c. Burnett's Liquid Bird Tonic. Each, 15c. "Birdolene." Each, 20c. "Highball," "Pep," or "Sing Song." Each, 15c. Song Restorer Cups. Each, 10c. Each, 25c.

"O. K." SANITARY POULTRY LITTER

"O. K." SANITARY POULTRY LITTER

There is no litter the equal of "O. K." Sanitary Poultry Litter for use in poultry houses, brooders, coops, scratching pens, etc. It is an absorbent, a deodorizer, a disinfectant, a scratching litter, and a dust bath vermin remover all in one. Prepared from properly granulated imported peat moss.

"O. K." litter is the most economical considering that it lasts at least six months, requires very little labor for its care and changing, is beneficial to the health and productiveness of the flock, and after being used is an exceptionally valuable garden fertilizer. It also reduces danger from fire.

5 lbs., 35c. Bale of about 175 lbs. to cover 80 square feet 3 inches deep, delivered in Chicago, \$5.00; by express f. o. b. Chicago, \$4.50.

CUT CLOVER

We carry a specially cured and fine cut Clover which is rich in protein and minerals. Our Cut Clover is excellent for scratching litter for baby chicks and they eat it most eagerly. It is also excellent for mixing with mashes for growing and laying stock. 5 lbs., 30c.



BARNARD'S POULTRY



These feeds are prepared by ourselves from the best quality of clean pure grain, in accordance with our tested formulas. Your birds will like them, and will abundantly repay you. By manufacturing our own feeds, we are able to give you the best possible value for your money.

for your money.

Please Note! The following prices are effective with
the publication of this catalogue, but are subject to change without notice, according to the market fluctua-

Deliveries made in Chicago and our suburban delivery districts only of 50-lb. or larger lots without extra

charge.				
MIXED FEI	EDS			
		Li	S.	
	5	25	50	100
Barnard's Surelay Scratching				100
Barnard's Surelay Scratching Feed\$	0.20	\$0.95	\$1.85	\$3.15
Barnard's Surelay Poultry Mash	.20		1.90	3.25
Barnard's Pigeon Feed	.25		2.25	
Chick Scratch Feed (Standard				2.00
Brand), Fine or Medium	.25	1.00	2.25	4.00
Conkey's Buttermilk Starting				*****
Feed	.45	1.75	3.25	6,00
Conkey's Buttermilk Growing			0.20	0.00
Mash	.35	1.50	2.75	5.00
Pratt's Baby Chick Food	.45	1.75	3.25	6,00
UNMIXED GRAIL	N FE	EDS		
			07 70	ma aa
Alfalfa Meal, Finely Ground\$		\$0.85	\$1.70	\$2.90
Barley Bran, Wheat	.20	.80	1.60	2.70
Bran, Wheat	.20	.80	1.65	2.80
Buckwheat	.25	1.00	2.05	3.70
Corn, Cracked; Fine, Med., Crse.	.20	.80	1.60	2.65
Corn Feed Meal	.20	.80	1.60	2.65
Corn, Yellow Flint, Whole	.30	1.35	2.65	4.75
Corn, Yellow or White Dent	.20		1.50	2.50
Gluten Feed Kaffir Corn	.25	1.00	1.95	3.40
Kamr Corn	.25	.95		
Middlings, Wheat, Standard	.20	.85	1.65	2.80
Oats Oats, Hulled	.20	.80		
Oats, Hulled	.30	1.25	2.45	
Oats, Steel-Cut or Pinhead	.30	1.25	2.50	4.25

ANIMAL PROTEIN FOODS Bone, Granulated \$\ \\$2.50 \\
Meat Scraps, 50\(\) Protein \$\ \\$40 \\
Buttermilk, Semi-Solid, 1 gal., \$\\$1.00; 50-lb. pail, Buttermilk, Semi-Solid with Cod Liver Oil, 1 gal., 50 lb. pail, \$\\$5.25.

.30

.25

.60

.25

1.15

1.65

1.10

.85

2.30

3,15

3.90

3.00

10.00

Wheat

Oil Cake Meal, Linseed ...

Peas, Canadian Field.....

Sunflower Seed

CHARCOAL, GRIT AND SHELL

.....\$0.25 \$0.95 \$3.25 1.60 2.20 2.65 \$1.90 .50 1.00 1.35 .80 1.55 1.50 2.50 2.00

POULTRY LITTERS 1.00

DIND TOODS								
		Lbs.						
1	2	5	25	100				
\$0.15	\$0.30	\$0.70	\$3.25	\$12,00				
.15	.30	.70	3.25	12.00				
.15	.30	.70	3.25	12.00				
.15	.30	۰70	3.25	12.00				
.25	,25	.60	2.50	9.50				
.30	*******	*****	****	-				
.10			****	***************************************				
.35								
.15			*******	*****				
.10	.15							
5; per	oz., \$	0.10; p	er lb.,	\$0.50,				
	\$0.15 .15 .15 .15 .15 .15 .15 .10 .35 .16	1 2 \$0.15 \$0.30 .15 .30 .15 .30 .15 .30 .15 .25 .30 .25 .30 .25 .10 .20 .35 .70 .16 .26	\$0.15 \$0.30 \$0.70 \$1.5 \$30 \$.70 \$1.5 \$30 \$.70 \$1.5 \$30 \$.70 \$1.5 \$30 \$.70 \$1.5 \$30 \$.70 \$1.5 \$30 \$.25 \$.60 \$30 \$1.5 \$26 \$.60 \$1.5 \$26 \$.60 \$1.5 \$26 \$.60 \$1.5 \$26 \$.60 \$1.5 \$26 \$.60 \$1.5 \$26 \$.60 \$1.5 \$26 \$.60 \$1.5 \$26 \$.60 \$1.5 \$20 \$1.5	Lbs. 1 2 5 25 \$0.15 \$0.30 \$0.70 \$3.25 .15 .30 .70 3.25 .15 .30 .70 3.25 .15 .30 .70 3.25 .15 .30 .70 3.25 .15 .25 .60 2.50 .30 .20 .40				

Barnard's Baby Chicks and Hatching Eggs

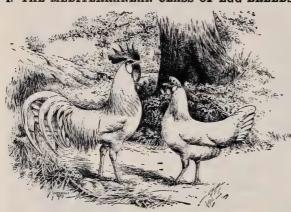
Baby chicks are a great specialty with us. We recommend the raising of our day-old-chicks as the most satisfactory way of establishing a new flock of poultry, or of renewing an old flock, for utility purposes. It is really less expensive to buy chicks than to hatch them in small lots, and you are much more certain of having just the number that you want when you want them. You are saved all the bother of operating an incubator or caring for a setting hen, the expense of maintaining male birds which lower the value of the eggs for table use, and the expense of the incubator, or loss of body weight and time off from laying of the setting hen.

The regular utility grade of Baby Chicks that we offer are the product of free range flocks, pure bred, of standard type, carefully culled, and selected for their performance as layers. These flocks have been developed and maintained for years especially for the production of our Baby Chicks. They are the very highest quality of flock matings. Our chicks all come from the same flock matings each year, so that we have the advantage of observing birds matured in previous years from the same flock matings which are producing this years chicks.

The Hatching Eggs which we offer are produced by Pen Matings of prize-winning exhibition stock. They afford an exceptional opportunity to secure valuable exhibition birds at small expense. We replace free all infertile eggs returned to us over 20% of the lot purchased. The infertile eggs remain clear, all others are fertile.

Baby Chick Varieties

I. THE MEDITERRANEAN CLASS OF EGG BREEDS



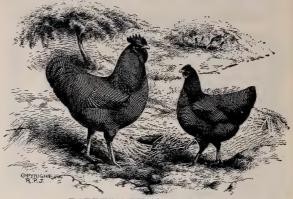
S. C. White Leghorns

These active graceful birds are most popular for their efficient production of white shelled eggs. The average Mediterranean flock excels all others in the number and weight of eggs laid, and in using the least feed per bird and per egg produced. Certain markets pay a premium for these white-shelled eggs.

They are easily hatched, chicks are hardy, pullets mature early, are non-sitters and good foragers. Being small and active, they need special fences to confine them, and well constructed winter laying houses. They are best marketed for meat as broilers.

The Minorca is an exception to some of the characteristics of this class. It is much larger, and is white skinned instead of yellow. Its eggs are the largest of all our fowls, and it often equals the Leghorns in egg production in weight, if not in number. The most popular black fowl. ular black fowl.

	Da;	Eggs		
	25	50	100	per 15
LEGHORNS				_
	\$4.50	\$ 8.50	\$16.00	\$3.00
Single Comb Brown	4.50	8.50	16.00	3.00
Single Comb Buff	4.75	9.00	17.00	3.50
Single Comb Black		9.00	17.00	3.50
Rose Comb Brown	4.75	9.00	17.00	3.50
ANCONAS				
Single Comb Mottled	4.50	8.50	16.00	3.00
MINORCAS				
Single Comb Black	5.50	10.50	20.00	3.50
Single Comb White	6.00	11.50	22.00	3,50



BARRED PLYMOUTH ROCKS

II. THE AMERICAN CLASS OF GENERAL-PURPOSE BREEDS

Farm and Home poultry keepers appreciate the modern egg strains of these excellent table fowls. They hold many individual and flock records for egg production, being especially good winter layers.

They are active but docile, lay brown eggs, are yellow-skinned, and beautifully plumaged. Their growth is rapid, reach maturity nearly as early as the Mediterraneans, and attain much greater size. The Plymouth Rocks are especially popular for broilers, roasters, and capons.

Day	nicks	Eggs	
25	50	100	per 15
\$5.00	\$ 9.50	\$18.00	\$3.00
5.75	11.00	21.00	3.00
	10.50	20.00	3.00
	12.50	25.00	
5.00	9.50	18.00	3.00
5.00	9.50	18.00	3.00
5.50	10.50	20.00	3.50
5.50	10.50	20.00	3.00
6.00	11.50	22.00	3.50
Note!			
		25 50\$5.00 \$ 9.50\$5.75 11.00\$5.50 10.50\$5.00 9.50\$5.00 9.50\$5.00 10.50\$5.00 10.50	25 50 100\$5.00 \$ 9.50 \$18.00 5.75 11.00 21.00 6.50 10.50 20.00 5.00 9.50 18.00 5.00 9.50 18.00 5.50 10.50 20.00 5.50 10.50 20.00 5.60 10.50 20.00 5.60 11.50 20.00 6.00 11.50 22.00

Above prices in effect with season's opening. Subject to change without notice, Reductions will be credited to customer. 96% alive chick delivery guaranteed, parcel post paid. Special prices on chicks in lots of 500 and over

cel post paid. Special prices on chicks in lots of 500 and over.

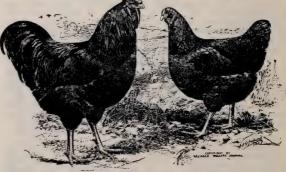
Exhibition quality chicks at 30c each.

No shipments less than 25, nor sales less than 6 chicks. 10% discount on hatching eggs in lots of 50 and over. Free replacement of infertile eggs up to 80% of purchase.

Fertility claims must be made within 25 days after receipt. Clear eggs, bearing our stamp, must be presented in exchange for a free replacement as settlement in full of all valid claims.

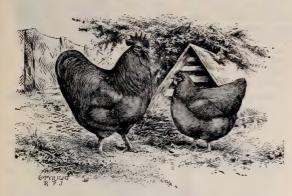
OTHERWISE WE ASSUME NO RESPONSIBILITY

Add postage for 4 lbs. on each setting of 15 eggs. 25% deposit on all orders, balance before delivery.



ROSE COMB RHODE ISLAND REDS

Baby Chick Varieties



BUFF ORPINGTONS

III. THE ENGLISH CLASS OF GENERAL-PURPOSE BREEDS

This class are favored for their excellence as table fowl. They are the largest of the clean-legged chickens, have white skins, and lay brown eggs. Their large size, heavy feathering, and quietness make them good winter layers, and good mothers. The special egg strains rival all other classes for egg yield. Their rate of maturity is in proportion to their size.

				-Old Ch		Eggs
	Orpi	ngtons	25	50	100	per 15
Single Single			\$5.50 5.50	\$10.50 10.50	\$20.00 20.00	\$4.00 4.00
	Suss	ex				
Speckle	ed		6.50	12.50	24.00	4.00

IV. THE ASIATIC CLASS OF MEAT BREEDS



LIGHT BRAHMAS

The chief distinctions of this class are the large size of the birds, and their feathered legs. Their most popular breed, the Light Brahma, to the largest of our breed, the Light Brahma, is the largest of our domestic fowls, rivaling the turkey. They are particularly valued as roasters and capons, having, a large proportion of choice meat in the carcass. Egg production is fairly good, individuals having made remarkable records. Eggs are brown. Brahma skins remarkable records. Eggs are brown, Brahma skins yellow, Langshan skins white. Hardy, docile, easily confined, quiet and long in maturing.

The chief distinctions

Day- 25	Old Ch		Eggs per 15
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	Brahmas				
Light		\$6.50	\$12.50	\$24.00	\$4.00
	Langshans				
Black		7.00	13.50	26.00	4.00

RARER BREEDS OR VARIETIES

Andalusians, Blue. Buttercups, Sicilian. Cornish, Dark. Giants, Jersey Black.

Minorcas, S. C. White, Buff. Langshans, White. Rhode Islands, R. C. White. Wyandottes. Golden, Col-umbian, Partridge, Buff.

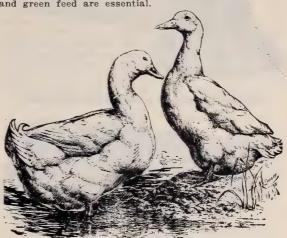
Prices on Application

PULLETS

We can furnish any standard breed in season, from very good stock. Ages 8 to 10 weeks, or "ready to lay". Prices on application, based on quantities.

WATER FOWL

Finely flavored meats for the home table or market are secured from cheap feeds by the use of ducks and geese. Their feathers are also a valuable by-product. These birds are hardy and require less care and equipment than chickens. Swimming pools are not necessary for them, but are desirable, especially for the mature stock. Plenty of fresh drinking water, grit, and green feed are essential.



WHITE PEKIN DUCKS
These ducks are the most popular for the home flock These ducks are the most popular for the home flock as well as the largest commercial farms. They may be kept in any size flock. A ration of coarse ground grain, meat scraps, and pasture will grow the ducklings to a weight of 5 pounds in 10 weeks, for the "green" duck market. Mature Pekins weigh 8 to 10 pounds. 100 to 150 eggs are laid during the breeding season, which find a ready sale for hatching or at the produce market.

Fancy Setting Eggs Day-Old Ducklings 25 50 50 \$12.00 \$23.00 \$44.00 \$3.50 Ducklings may be delivered safely by mail. \$6.00 \$25.00 GEESE

Geese do best on large ranges, where they will secure most of their food from the pasture, and require little grain. They do best in small flocks. Mature geese weigh 15 to 25 pounds, the Toulouse being the largest

Eggs are available from pure stock of Toulouse rey) and Embden (white) geese.

Prices will be quoted upon application.

TOULOUSE GEESE

PLEASE NOTE!

WE GUARANTEE 96% of the number of BABY CHICKS ordered to be alive, free from cripples, and true to name upon delivery to you by PARCEL POST; 100% at our STORE.

CLAIMS considered only if you (1) OPEN the BOX when you accept it, (2), count the live ones in the postman's presence, (3), procure a signed, dated proof of loss from him. (4) send it to us within 24 hours.

VALID CLAIMS will be settled in full by free replacement or a refund at our option.

OTHERWISE WE ASSUME NO RESPONSIBILITY.



Moe's Magazine Chick Feeder And Waterer

The magazine is water and air tight, so it can be used as a Feeder or Fountain. Adjustable for various kinds of feed. Capacity, 2 quarts. Each. 65c.

Moe's Large Capacity Feeder



A fine feeder for growing stock, and a great time and labor saver. Has a total of 32 feeder holes. Sliding top, easy to fill and clean. Capacity, 10 quarts; length, 21 in. No. 140-Moe's Chick Feeder. Each......

Moe's Aluminum Milk Feeding Trough

This solves the problem of how to feed buttermilk or soured milk, to give the chicks the benefit of the lactic acid which is so beneficial to them. Made of pure aluminum which is not affected by the acids of milk or similar feeds. Top and bottom slide together. Each is stamped from one piece, with no joints or seams.

No. 69—10 in. long.. .50 No. 70—20 in. long.. .90

Moe's Single And Double Feeding Troughs



These are accurately stamped with dies from the best quality galvanized iron, and all edges are smoothly turned. Sliding top makes filling and cleaning easy. Single troughs can be hung on the wall, so as to leave the floor clear and prevent perching.

Single Troughs Double Troughs .45 No.



Moe's Round Chick Feeder

Moe's Eclipse Feeding Troughs

popular priced "long" feeder, made of galvanized on the same pattern as the aluminum troughs pic-

MOE'S COMPARTMENT GRIT AND SHELL BOX

Can also be used as a feed hopper for little chicks. Grit, shell and charcoal has now become a recognized essential part of the diet, insuring healthy fowls. It cannot be more economically supplied than in one of these compartment hoxes.

2	compartments	\$0.40
	compartments	
4	compartments	1,20





OAKES' GRIT AND SHELL BOXES

Very substantially made of lyanized steel welded tovery substantially made or galvanized steel welded to-gether. Square bottom makes it stand firmly, or it may be hung up if desired. Has three compartments, for grit, bone, and charcaal. and charcoal.

Chick size, 6 in. wide, 7½ in. high.....\$0.75

Hen size, 9½ in. wide, 10½ in. high..... 1.10



STAR JAR FOUNTAIN AND FEEDER

Will fit pint, quart or half-gallon Mason jar. Manufactured of one piece of non-rusting metal. No parts to come unsoldered. Leaking impossible. Convenient, cheap and sanitary. Little chicks cannot get drowned. Can be used for feed as well as water.

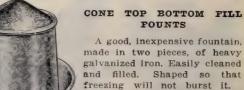
Price, each, 10c; dozen, \$1.00.

JAMESWAY CHICK WATERER



Without question this is the most satisfactory chick waterer e v e r made. Holds 1½ gallons, Easily cleaned. Two parts to this waterer—the inverted t h e inverted bucket and the drinking pan. Can be cleaned as easily as you can clean a bucket and a pie tin. But this waterer is built a good deal heavier than any buck-et and pie tir. you ever saw. \$1.35

Price, only



Quart size, 30c, 1/2 gal. 40c, Gal. 60c.

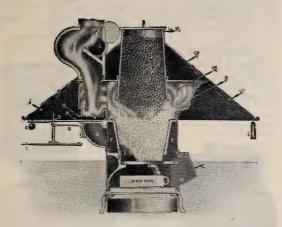
STONE JAR FOUNTAINS

Easily filled and cleaned. Helps to cool the water. Very strong and never rust. Complete with jar and

Quart size 45c; 1/2 gal. 60c, gal. 80c, 2 gal. \$1.20.

NEWTOWN COAL BURNING COLONY BROODERS

It was the first coal-burning, self-feeding, self-regulating Colony Brooder put upon the market. It represents the modern up-to-date brooder in the highest form of development. The Newtown way is the proven road to better profits.



Cross section of Nos. 11 and 12 Brooders. Note the large heat radiator around the top of the heater just under the deflector. These stoves are especially desirable for larger rooms and are the best brooders for raising chicks in large flocks. They were designed especially for two-room colony houses or large single room buildings. The No. 11 for approximately 240 square feet and up to 500 chicks and the No. 12 for 400 square feet and up to 1,000 chicks. The size of the building should determine size of the brooder and the size of the flock.

The Newtown brooders are very substantially constructed, and have greater weight and coal capacity than others of the same canopy size. The large coal capacity insures against burning out during severe weather. The draft is regulated by both a damper and a check, drawing air from within the canopy, and thus ventilating it.

				Smoke		
No.	Canopy	Grate	Coal	Pipe	Price	Weight
7	48 in.	11 in.	39 lbs.	3 in.	\$25.00	140 lbs.
11	50 in.	11 in.	48 lbs.	4 in.	32.50	195 lbs.
12	56 in.	15 in.	60 lbs.	5 in	40.00	280 lbs.

Soft Coal Attachment, (specify size).

Newtown "Blue-Flame" Oil Brooder No. 445.

This brooder is recommended for the care of 250 to 300 chicks, although it will accommodate 500. It comes as near the ideal set by the Newtown Coal Brooders as is possible with this fuel. The burner is simple and can be be lighted with an ordinary match. It is mounted on a ventilated metal base. You are assured that there will be no smoke nor fumes, no flaring up nor going out. Simply and easily cared for Substantially made. Shipping weight, 50 lbs. Price each, \$22.50.

Putnam Brooder Heater



For use in home made brooders of 25 to 50 chick capacity. to 50 chick capacity. Easy, simple, and economical to operate. Uses least oil per chick, consuming less than one gallon per month. Ventilates brooder automatically. Heat is radiated from above onto the backs of the chicks. Burns one week without refilling fount.

Each, \$2.50

Shipping weight, 41/2 lbs. Price each....

INCUBATOR AND BROODER EQUIPMENT THERMOMETERS



Exact know-ledge of the temperature is of first impor-tance in incu-bation. Our Tycos thermometers are accurate, de-

permanent.	You can	n trust	your	eggs	to them	with
Tycos Incub	ator The	rmomete	er		*************	.\$.75
Tycos Certif Tycos Incub	ator The	rmomete	er, on	legs		85
Tycos Metal Tycos Wood	Brooder Frame	Therm Brooder	omete:	r momet	er	50
	Postago					

be additional.



HYGROMETERS

These instruments show the percentage of moisture in the incubator. They are necessary in order to properly control the evaporation in the egg, and so insure strong, healthy chicks. Tycos Incubator

Hygrometer	\$1.75
Wicks	15
Postage 10c a	additional

SUN HINGE BURNERS

For luminous kerosene heaters. Used in our Queen incubators, and in many other standard machines. Easily cleaned and trimmed. Perfection combustion. Size

Wick Chimney Fount Each No. 2 No. 2 No. 3 No. 2 No. 2 No. 2 No. 3 No. 3 No. 3 No. 3 \$.45 .55 .70 .65

ZENITH NO-CHIMNEY BURNERS

Perfect combustion without a chimney. Can be used advantageously where a low lamp is necessary.

Size Wick Fount Each 5% in. No. 1 No. 2 .60 in.5% in. No. 2

LAMP WICKS, FOUNTS AND CHIMNEYS

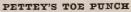
	Size	No. 1	N	0. 2	N	o. 3
	Ea.	Doz.	Ea.	Doz.	Ea.	Doz.
Cotton wicks\$.03	
Red Felt Wicks	,03	.25	.04	.35	.05	-50
Galvanized Founts	.50	5.50	.60	6,50	.75	7.50
Metal Chimneys					,25	
Expanding Collars	,10	(1-2)	.15	(2-3)		
Reducing Collars			.10	(2-1)	.15	(3-2)

NEST EGGS

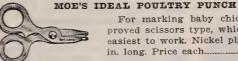
Artificial eggs are useful to lead the hens back to the nests where you wish them to lay. Help to prevent "stealing" nests, and other vices such as egg eating.

Porcelain Eggs, 3 for 10c;

35c per dozen.
Non-breakable Enameled
Eggs, .05 each.



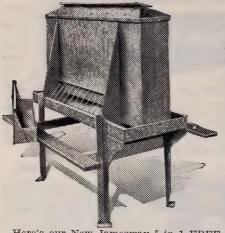
One of the best punches on the market. All steel nickel plated, punches clean, hole is right size, will not bruise the foot. Price, 25 cents, postpaid.



For marking baby chicks. Improved scissors type, which is the easiest to work. Nickel plated, 31/2 in. long. Price each......\$0.50

STOVER GRINDING MILLS

Jamesway 5-in-1 Mash Feeders



The num-ber of eggs you can get from your hens dehens de-pends large-ly upon the quality and kind of feed f u r nished them. produce eggs regu-larly a n d continuously, hens
must be
supplied with materials for yolks, whites and shell, in the correct pro-

Here's our New Jamesway 5 in 1 FREE FEED Cafeteria Feeder—just exactly the kind of feeder you've always wanted but could never get before.

With this Feeder all you have to do is fill it once a week—you know positively that the feed will always be where the fowls can get it because this feeder can't clog. Every time a fowl jumps up on the platform the interior compartment swings back and forth and forces the feed down into the side pans.

Three foot size, \$11.80 at the factory; \$12.50 in Chicago.

Five foot size, \$11.80 at the factory; \$18.50 in Chicago.

FINE JAMESWAY POULTRY WATERER

Built to supply your hens with clean, fresh water—all of the time! Eight gallon reservoir, enough for 150 hens for the day. The drinking pan extends all the way around the waterer, providing plenty of room for 12 to 15 hens to drink at one time.

The waterer itself is built of heavy, best quality, rust-resisting galvanized steel sheets, and is in four detachable sections; the top, the container, the pan, and the base. The stand shown is an extra Jamesway feature that adds wonderfully to the practicalness of this waterer. You can order this waterer with or without the stand.

With the stand it is about 40 inches high: diameter



Made entirely of galvanized iron, spot-welded into one unit. Slanting hinged lids make it rat and trash proof, also prevent perching. Flow of mash regulated by adjustable swinging wire-mesh screen. "Billing" prevented by partitions and flanges. Tapered shape prevents clogging. shape prevents clogging.
12 in., \$1.75; 18 in., \$2.25;
24 in., \$2.75; 36 in., containing 3-section grit box, \$3.75.

MOE'S OAT SPROUTER

Provides the necessary green feed at all seasons. Heavy galvanized pans. Enameled section steel frame. Easy to set up or take apart. Height 3 ft. Pans 16x18 in. Weight 30 lbs. Price ...

WIRE NESTS

These nests are of the basket type, which are attached to the wall. They are strongly made of coppered wire. Easily removed for changing the nesting material. No places for mites to hide to hide. Each, 20c; per dozen, \$2.20.

JAMESWAY ALL-METAL NESTS

Jamesway nests are neat, substantial and sanitary. They are non-absorbent, and offer no harboring place for lice, mites or other parasites. Easy to clean by simply swinging out from the wall. Swinging perches close the nests at night, (a feature found only on Jamesway nests). Trap attachments easily adjusted.

Made in Three Sized Sections at Factory at Chicago

No. 625-5-nest section for	
under dropping board\$5.00	\$5.25
No. 626—6-nest section for wall	8.75
No. 630—10-nest section for wall	12.00
No. 576—Trap attachment, each	.45

Drop Bottom Wall Founts

May be hung up on the wall out of the litter. Easy to fill, easy to clean, nothing to get out of order. When filled, two, back to back, may be carried in each hand. May be used for chicks, fowls or pigeons.

2-quart	9	30.95
1-gallon		1.25
2-gallon		1.50

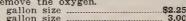


OAKES' FLAT BACK WALL FOUNTAINS

Well made of galvanized iron. Rests firmly against wall when hung up, and will not roll when laid on the ground for filling.

gallon	\$1.35
gallon	1.60

OAKES' AUTOMATIC FOUNTAIN A most sanitary fountain, which is A most sanitary fountain, which is very convenient to use. The water is retained in the reservoir by a simple automatic valve, permitting it to be filled through the top. Lid is cone-shaped to prevent perching. Trough is deep and well hooded to prevent fouling of the water. All parts are easily accessible for cleansing. The water remains fresh because there is no suction on it to cause there is no suction on it to remove the oxygen.





MOE'S IMPROVED WALL FOUNTAINS

Made of heavy galvanized iron. The covered outlet keeps out dust and dirt and the sanitation is further assured by a removable plate which prevents any floating rubbish from being drawn into the reservoir.

	quart		80.90
	gallon		1.10
2	gallon	capacity	1.40

MOE'S TOP FILL FOUNTAIN

Fills through the top, by lifting off the outer wall. Spring valve holds the water while the reservoir is

31.75
25)
3.25

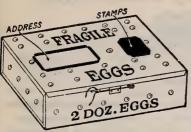
Pagel's Sanitary Fountain



This fountain is similar in construction to the fireless cooker, having two walls with the space between heavily packed with a nonconducting material which retains the temperature of the water and prevents freezing in winter and keeps water cool in summer.

2-gallon, 13-inch diameter, 15 lbs. \$3.50 3-gallon, 14-inch diameter, 20 lbs. 4.00

METAL EGG CRATES



These are e are the serviceable most and safest carriers for continuous round-trip service. Very light, but are so reinforced as to resist crushing. The built-in fillers make them shock proof. Convenient priori. Convenient to use, equipped with hinged lid, reversible address card, and locking pin. No wrapping required. Will last styles, with renew-

for several seasons. Made in two styles, with reable cardboard filler, or metal-edged built-in fillers.

Capacity	Caraboara Filler	Metal-Edged Filler
2 dozen size 3 dozen size	\$1.00	\$1.50
3 dozen size	1.25	1.75
4 dozen size	1.50	2.00
6 dozen size	1.75	2.50
9 dozen size, Wt.	8 lbs	\$3.25
12 dozen size, Wt.	10 lbs,	4.00
15 dozen size, Wt.	12 lbs	4.75
Add 1	postage to above n	rices



HUMPTY DUMPTY FOLDING CRATES

The very popular wooden crate. Made light and strong, provided with a handle for carrying. Especially useful for handling large quantities of eggs. May be folded for return shipment or storage.

		THE RESERVE	111100		Weight
	pacity		Each	Dozen	Each
3	dozen	eggs	\$0.50	\$5.00	4 lbs.
				5.50	5 lbs.
9	dozen	eggs		6.00	6 lbs.
12	dozen	eggs	65	6.50	7 lbs.
15	dozen	eggs		7.00	8 lbs.
30	dozen	eggs	1.15	11.50	14 lbs.



Schurmann Kushion Kar schurmann Rusmon Kartons. Popular because of their exceptionally neat appearance. Special filler cushions the eggs and displays them well. Capacity, 12 eggs arranged 2x6.
Per 25, 50c; 100, \$1.80; case of 250, \$4.25.

NEWTOWN CARTONS

very good egg carton of oblong type at a popular e. Per 25, 45c; 100, \$1.60; Bdle. of 250, \$3.75.



Continental Safety tons. A one-piece carron which is shock-proof. Each egg supported firmly in the middle by paper fingers, no wrapping or packing neces-sary. Often used as fillers sary. Often used as nilers for shipping cases or baskets.

Per 25, 40c; 1 case of 250, \$3.50. 100, \$1.50;

Square-Style Cartons. A convenient carton at a low ice. All are No. 1 Grade. Eggs arranged 3x4. Per 25, 35c; 125, \$1.50; case of 250, \$2.90.



SHIPPING COOPS

Our shipping coops are made of wood, are light in weight, at the same time are strong, insuring safety from all ordinary accident. In design they present a good appearance, and provide ample protection to the fowls and their plumage. Made in the following sizes:

No.	Length	Width	Height	Each	Six	Doz.
1	12	18	18	\$0.60	\$3.50	\$6.00
2	18	18	18	.70	3.75	7,00
3	12	21	21	.75	4.00	7.50
1	18	21	21	.85	4.50	8.60
-	24	21	21	.95	5.00	9.75
0		21	21	1.10	6.00	11.25
6	30	41	ı L	1.10	0.00	

1,25

Poultry Leg Bands

COLORED CELLULOID SPIRALETS

These bands are popularly used for separating the birds into groups, according to age, pen, strain, hatch, or ownership. By the use of combinations of bands of different colors on one or both legs, the complete record of the fowl may be shown.

Spiralets are light, cannot lose off, are easily put on like a key-ring, and are made of solid-colored celluloid. Made in ten colors, assorted to your order at the same price in lots of 50 or more.

Specify age, sex, and breed of birds, and colors of bands wanted, when ordering. Postage extra.

	us wanteu, when ordering	5. P	stage	extra	L.	
No.		12	25	50	100	1,000
4	Baby Chick	.10	.20	.35	.60	4.50
5	Pigeon	.10	.20	.35	.60	4.75
	Leghorns, etc	.15	.25	.40	.75	6.00
	Rocks, Reds, etc	.15	.25	.45	.85	7.00
	Brahmas, etc	.20	.35	.50	.95	8.00
14	Geese, Turkeys	.25	.40	.60	1.15	10.00

BANDETTES

The large-numbered colored celluloid flat poultry bands. In Leghorn and American sizes. Colored Red. Green, Yellow, Pink, Blue. Price per package of 25, 60c. Set of 1-100, \$2.00

COLORED LEADER ADJUSTABLE

A fine band for exhibition and trap-nest use. Made of aluminum, with large printed numbers on a colored ground. Adjustable to fit all breeds. Five colors.

12 for 30c; 25 for 50c; 100 for \$1.50

NUMBERED MOE'S 234 ALUMINUM ADJUSTABLE LEG BAND

Useful for numbering the individual fowls. Substantially made with a secure double lock. Numbered consecutively, with stamped raised figures. Adjustable to fit the legs of all breeds.

15c per dozen, 25c for 25, 45c for 50, 75c per 100,

\$6.00 per 1,000.

Pigeon Supplies

PIGEON BANDS **D**oz. \$0.15 .90 Ring, colored celluloid20 .35

"COLOROID" ELITE PIGEON BANDS



KEIPPER'S SANITARY PEED TROUGH

Made with rectangular galvanized iron pans for the top and bottom, separated by vertical wires around the edges which permit the pigeons to feed, but not to enter the feeder. Positively prevents soiling of feed or water, is great for pigeon fanciers as the food left over will not be soiled. Easily taken apart for cleaning. 18 inch size\$1.15

24 inch size\$1.50



		Each	Doz.
Earthen	9 inches	\$0.15	\$1.50
Earthen	10 inches	.18	1.80
Fibrotta	Nappies	25	2.50

RACING PIGEON BOBS

Aluminum bobs and rod, 30c per bob. Bob frames complete with rods and electric signal switch, on order.



s the whitewashing job into pleasant rainy-day that can be done easily and quickly at a saving of time, labor and money.

Carbola is a white mineral paint combined with powerful germ-killing, disinfecting elements many times stronger than pure carbolic acid.

Trial pa	ackage (250 sq.	ft.)	\$0.30
10 pou	nds (10	gallons))	1.25
200 pou	nds	54110115	/	18.00

The Burrell-Dugger Co. Remedies TALCIMIZED SODIUM FLUORIDE KILLS POULTRY LICE

Talcimized Sodium Fluoride is made especially for poultry and carries the Government's direction for applying. It is safe, easy to use, inexpensive and absolutely does the work quickly and effectively. ½ lb., 35c; 1 lb., 60c.

DON SUNG MAKES HENS LAY

Don Sung (Chinese for egg-laying) is a new scientific discovery for hens that stimulates the egg-laying organs and makes the hen healthy, strong and vigorous. As a result, she lays regularly in any season.

Price, 50c; Large Size, \$1 (holds 3 times the 50c size); Special Size, \$5 (holds 6 times the \$1 size).

AVICOL

Famous the world over for the treatment and prevention of White Diarrhoea and Cholera in chickens, and Blackhead in turkeys. 50c and \$1.00 pkgs.

ROUP-OVER

The "Over-Night" roup remedy. A new and wonderful prompt and positive guaranteed treatment for Roup, Canker, and Colds in poultry. treatment for

50c and \$1.00 bottles.

Pratt's Poultry Preparations

PRATT'S POULTRY REGULATOR Packages 25c, 50c; 12-lb. package \$1.40.

PRATT'S POULTRY DISINFECTANT Quart 60c; half gal. \$1.00; gal. \$1.70.

PRATT'S POWDERED LICE KILLER

PRATT'S RED MITE SPECIAL Quart 55c, ½ gal. 90c, gal. \$1.50.

Lee's Poultry Supplies



Germozone has proved effective for diseases of poultry, including roup, colds, sore head, swelled head, chicken pox. canker, cholera and diarrhoea. Most poultry diseases are spread through the drinking water and germs picked up with the food. Germozone disinfects the drinking water and prevents these troubles.

Lee's Germozone Liquid-

4-oz. size	\$0.40
	.75
32-oz. size	1.50
Gallon size	4.50
Lee's Germ	ozone Tablets-
20 for	\$0.25
75 for	
200 for	1 05

LEE'S LICE KILLER

Quart can, 60c; 1/2 gal., 90c; 1 gal., \$1.50.

Conkey's Remedies



Their complete line will always be found here. Write to us for Conkey's Poultry Book.

YEASTS FOR FEEDING onkey's Y-O. (Yeast and Cod Liver Oil). A scientific combination of the richest brewer's yeast with cod liver oil. Made by a valuable new process. It supplies in copius quantities three important vitamines which are necessary to greatest health and rapid development.

1 10., \$1.00; 2 1bs., \$1.75; 5 1bs., \$4.00 Conkey's Y-O.

Fleischmann's Pure Dry Yeast. Especially prepared for stock and poultry. An invigorator and vitalizer. 1 lb., \$1.00; 2½ los., \$2.00;

invigorator and vitalizer. 1 125 lbs., \$18.50; 100 lbs., \$69.00.

BARNES WORM EMULSION
Completely effective for the control of worms in poultry. Beneficial to the general health of the birds when used regularly, resulting in a saving in feed costs, lessened mortality, with increased vitality and production. Destroys the worms internally, so that re-infestation is done away with, and also restores the strength taken by worms. taken by worms.

Pints, 60c; Quarts, \$1.00; Gallons, \$3.00, Each.

OCULUM

As a cure of disease inoculate the fowls by injecting Oculum in its vent (rectum) with a graduated syringe specially manufactured for the purpose. Directions and syringe with each 50c or \$1.00 bottle. Feeding Oculum: Use one drop to each grown fowl or 10 drops to each pound of feed; mix the Oculum with a little water, then sprinkle on the feed, stir and cover it and the Oculum will go through the feed in a few minutes. Trial bottle. 10c, 50c, \$1.00; pints, \$2.00.

Trial bottle. 10c, 50c, \$1.00; pints, \$2.00.

TRY THE NEW WAY TO KILL LICE

Use "LICEMIST." Simply put a few drops in nests and on roosts and hang uncorked bottle in coop or hen have a powerful vapors evaporating from the bottle house. Powerful vapors evaporating from the bottle are heavier than air and descend in a misty form, penetrating everywhere. Kills all lice and mites because they breathe through pores in the body, but is harmless to chicks. In bottles, postpaid, for \$1.00. Money back if it fails.

AVENARIUS CARBOLINEUM (Reg.) Kills Mites or Ticks in Hen Houses

Applied once a year—will do the work.

Avenarius Carbolineum will not only kill mites and fowl ticks by direct contact, but if sprayed or brushed, it will penetrate all cracks and crevices and effectually stop their propagation. Gal. \$1.50; 5-gal drum, \$6.25.

THE LICENE COMPANY REMEDIES

If Licene does not destroy every louse and "nit" (egg of a louse) or does not clean scaly legs on your chickens, or if applied on sitting hens and does not prevent head lice on chicks—you are the judge—we will refund your money if you notify us (or our agent) within one month after receiving Licene. Price, 60c

COLDENE Coldene is put up in tablet form. It is for colds, for bronchitis and for mild cases of pneumonia. In bad cases of roup, when the eyes of the bird are closed, it must be given in connection with Pipene. Price, 60c a box.

For roup, prolonged cold, hoarseness, discharge from nostrils and eyes "scale" on tongue (pip). It reaches the diseased tissues directly—applied by means of a medicine dropper. Price, 60c per bottle.

RUMATENE For rheumatism in chickens, stiff joints and lameness. Price, 60c per box.

INDEX

	Page	OURTLAWN GRASS MIXTURES WIET	Page
BOOKS—Gardening		ROOTS—	
BULBS-Summer Flowering5-8-9- 80 thru	89	Fern5-	91
Canna 5-	81	Flowering Bulb	
Dahlia 83-84- Gladiolus 8-9-86-	85	Flowering Perennial Vine82-	
Lily88-	89	Vegetable	
Miscellaneous5-80-	82	ROSES—	
Specialty	5	Bush5-97-99	100
BUSHES— Fruit	107	Climbing	
Rose5-97-99-	100	SCALECIDES110-	111
CHICKEN FEEDS AND SUPPLIES. 119 thru	126	SEEDS2-3-4-12 thru 78-	128
FARM AND FIELD SEEDS	45	Annual Flower2-4-12 thru	39
	A SE ST	Farm and Field	
FEEDS FOR POULTRY AND PETS		Grass	
FERTILIZERS 108-	109	Herb	. 78
FLOWER—	89	Lawn Mixture	
Bulbs		Specialty2-3-12 thru	
Plants, Annual	78	Vegetable47 thru	78
Plants, Perennial 90 thru	95	SHRUBS-	
Seeds, Annual 2-3-4-12 thru Seeds, Perennial 2-3-12 thru	* 39	Flowering and Ornamental7-102 thru	105
Shruhs 102 thru	105		
Specialties 2 thru Vines 7-	101	SPRAYERS	. 117
	101	SUPPLIES108 thru	1118
FRUIT— Bushes	107	Boxes, Window Plant	
Plants, Strawberry	107	Cel-O-Glass Cloth, Plant Bed	
Trees	106	Fertilizers	
Vines, Grape		Fungicides	- 111
FUMIGATING MATERIALS110-		Insecticides 110-	
FUNGICIDES		Peat Moss, Granulated	
GRASS SEEDS44-45-46-	128	Poisons 110	
INSECTICIDES 110-	111	Sash, Hotbed	
LAWN MOWERS-Philadelphia	. 115	Spray Materials110	- 111
MUSHROOM SPAWN	66	Wax, Grafting	
NURSERY STOCK 5-7-97 thru	107	Weed Killer	
Bushes, Fruit Bushes, Rose5-97-99-	107	TOOLS AND REQUISITES, GARDEN AND	
Bushes, Rose	100	LAWN 112 thru	
Fruit Trees	106	Cleaners, Lawn Cultivators 112	
Fruit Vince	10/	Lawn	- 116
Ornamentals 5-7-97 thru Rose Bushes 5-97 thru	100	Mowers, Philadelphia Planet Ir.	
Rose Climbers	, ,0	Planters	3 115
Trees Fruit	. 106	Pruners116	- 118
Trees, Ornamental Shrubs, Flowering and Ornamental	105	Rollers	
7-102 thru	105	Sprayers	
Vines Grape	101	Sprinklers	. 116
Vines, Hardy Climbing7-		Trimmers and Edgers115	- 118
PLANET JR. TOOLS		TREES— Fruit	
PLANTING TABLE FOR SMALL VEGE-		Ornamental	
PLANTS5-7-78-90 thru 95-	(1) 1, to	VECETABLE	
Decorative Fern	91	VEGETABLE— Bulbs, Onion Set	. 65
Flowering Annual	18	Plants	.65-78
Flowering Perennial, Hardy90 thru Flowering Vine	1 7	Roots	. 78
Fruiting Strawherry	107	Seeds	
Vegetable03-	10	VINES— Grape	
POULTRY AND PET STOCK FEEDS AND SUPPLIES	P.	Grape	

HOW TO MAKE A LAWN

OUR LAWN GRASS MIXTURES WILL MAKE A BETTER LAWN THAN SOD

MAKING A LAWN—How and When to Sow Barnard's Lawn Seed—The soil should be rich and carefully prepared by being pulverized. You cannot hope to get a good lawn on the soil that came from the cellar, 8 or 10 feet below the surface. If you are building a new house make the contractor save the top soil, provided it is not on filled land. If the soil is not suitable, have enough good dirt hauled in to make a top surface a foot or more deep. A thick, rich green turf, that will look well in a dry time, will only come on deep, well fertilized soil; when the roots will strike deeply. The best soil is a good medium texture; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that cannot be readily broken; ample time being allowed for the thorough setting of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow Barnard's Lawn Grass Seed at the rate of 75 to 100 lbs. per acre — one lb, will sow 200 square feet (or 300 square feet). It is unwise to be too economical in the quantity of seed used. The seed should be sown broadcast and as evenly as possible in early spring or late fall. For even distribution, sow on a light sward or mark off in 10 foot squares, then give a thorough rolling or pat well with the back of a spade, to press the seed into moist soil. When the young grass attains a height of 4 inches, mow with a high set mower and rake off. If later mowings are frequent, the short clippings will form a useful mulch, but if these are long rake off and use to mulch roses and perennials.

GENERAL SURFACE RENOVATING—When your lawn has been established, you will find it to your advantage to lightly re-seed each season. As early as possible carefully rake off all dead leaves, etc., and give the lawn a dressing of our pulverized SHEEP MANURE, or PURE BONE MEAL at the rate of at least 500 pounds per acre, and rake in, after which sow our Lawn Grass Seed at the rate of 25 lbs., to 50 lbs. to the acre, or 1 lb., to about 500 square feet, according to the condition of the lawn; after sowing roll thoroughly or pat with the back of a spade.



"PERPETUAL GREEN" LAWN GRASS SEED

With careful preparation of the ground and proper care during the summer will make a lawn like the above in one season. We can also supply the plants, trees and shrubs.

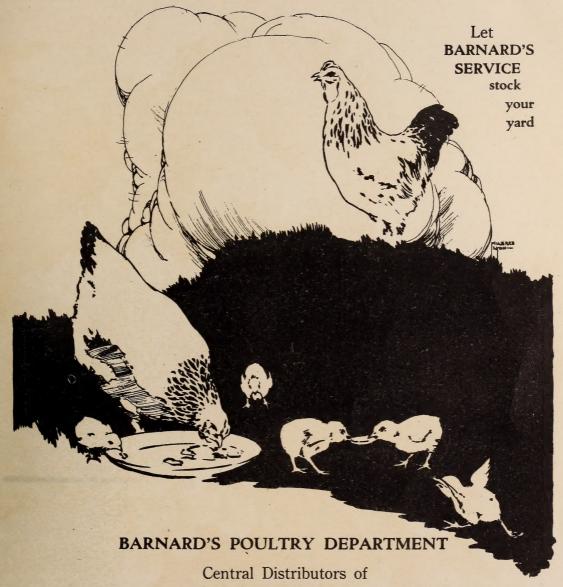
BARNARD'S "PERPETUAL GREEN" is a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year, so that a rich, deep, green, velvety lawn is constantly maintained. Our mixture is the result of several years' experimenting, and, as we now offer it, is unequalled. The quantity required for making a new lawn is 75 to 100 lbs. per acre, or for renovating old lawns, 25 to 50 lbs. per acre. For a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

A lawn seed mixture is very much to be preferred to any single grass; if it is honestly made, the several varieties of grass which compose it, mature at different seasons of the year, thus keeping the green sward in good color and condition during the hot weather, not losing its color as the single variety is liable to do. Price, ½ lb., 35c; lb., 65c; 3 lbs., \$1.85; 5 lbs., \$3.00; 10 lbs., \$5.75; 100 lbs., \$52.00.

Barnard's "Shady Place" Lawn Grass Seed-See Page 46

Add Postage if wanted by mail. See second page of cover.

BARNARD'S SERVICE for keepers of POULTRY, PIGEONS, BEES, PETS.



Central Distributors of
NATIONALLY DISTRIBUTED POULTRY SUPPLIES.
BABY CHICKS and HATCHING EGGS our Specialty.

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PLEASE let us know your wants. Our descriptions and prices will be freely furnished.



The W.W. Barnard Co.

231-235
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